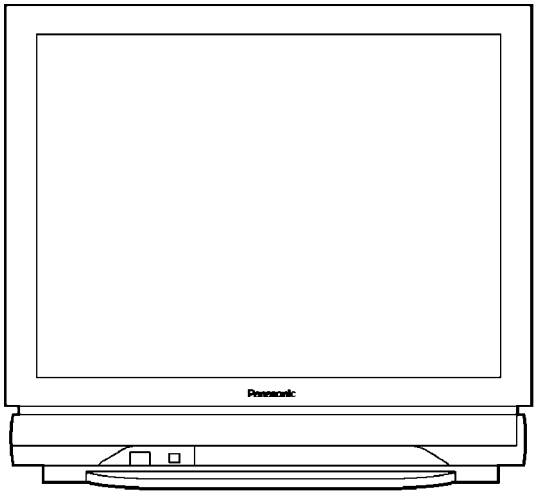
Order No. MTV0206175C3

Service Manual

Colour Television

TX-34P150X

MD3A Chassis



SPECIFICATIONS

Specifications

Power Source	**AC SINGLE 220 V, 50 Hz**
Power Consumption	**209 W**
	Standby condition : 3.0 W
Receiving System	**21 Systems**
Function	
Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders	**1 PAL B, G, H**
	2 PAL I
	3 PAL D, K
	4 SECAM B, G
	5 SECAM D, K
	6 SECAM K1
	7 NTSC M (NTSC 3.58/4.5 MHz)
	8 NTSC 4.43/5.5 MHz
Playback from special VCRs	**9 NTSC 4.43/6.0 MHz**
	10 NTSC 4.43/6.5 MHz
	11 NTSC 3.58/5.5 MHz
	12 NTSC 3.58/6.0 MHz
	13 NTSC 3.58/6.5 MHz
	14 SECAM I
Playback from Special Disc Players and Special VCRs	**15 PAL 60 Hz/5.5 MHz**
	16 PAL 60 Hz/6.0 MHz
	17 PAL 60 Hz/6.5 MHz
	18 SECAM 60 Hz/5.5 MHz
	19 SECAM 60 Hz/6.0 MHz
	20 SECAM 60 Hz/6.5 MHz
	21 NTSC 50 Hz/4.5 MHz

Receiving Channels	**Regular TV**
VHF BAND	**2-12 (PAL/SECAM B, K1)**
	0-12 (PAL B AUST.)
	1-9 (PAL B N.Z.)
	1-12 (PAL/SECAM D)
	1-12 (NTSC M Japan)
	2-13 (NTSC M U.S.A.)
UHF BAND	**21-69 (PAL G,H,I/SECAM G,K,K1)**
	28-69 (PAL B AUST.)
	13-57 (PAL D,K)
	13-62 (NTSC M Japan)
	14-69 (NTSC M U.S.A.)
CATV	**S1-S20 (OSCAR)**
	1-125 (U.S.A. CATV)
	C13-C49 (JAPAN)
	S21-S41 (HYPER)
	Z1-Z37 (CHINA)
	4A, 9A (AUST.)
Receiving Stereo System	**NICAM I, NICAM B/G, NICAM D, A2**

	(German)
Tuning System	Frequency synthesizer
	Auto Search Tuning
	POSITION : 100 Position
	DIRECT : 125 Position
High Voltage	31.0 ± 1.0 kV at zero beam current
Picture Tube	Overall Picture tube measured diagonally : 72 cm
	Viewable Picture tube measured diagonally : 68 cm
	CRT Deflection : 104°
Audio Output	36 W [2-way, 4-speaker; 12 W + 12 W, AFB woofer; 12 W] (10% THD)
Headphones	3.5 mm Plug
Aerial Impedance	75 Ω Unbalanced Coaxial
VIdeo/Audio/Component Terminals	
	S-Video In Y:1 Vp-p, 75 Ω
AV 1, 2, 3,4	
	C:0:3 Vp-p 75 Ω
	DVD (Y/PB/PR)
	Video In 1 Vp-p, 75 Ω
	Audio In Approx 0.4 V 47 k Ω
	Video Out 1 Vp-p, 75 Ω
Monitor Out	Audio Out Approx. 0.4 V 1 k Ω
AV1 IN (Rear) : S-Video, Video, Audio L/R terminals / AV2 IN (Rear) : Video or Y/PB/PR Audio L/R terminals / AV3 IN (Front) : S-Video, Video, Audio L/R RGB terminals / AV4 IN (Rear) : Video or Y/PB/PR, Audio L/R terminals	/ / / /
RGB Input	High-DENSITY D-sub 15 pin
Remote Control Transmitter	R6 (AA) Battery x 2
Dimensions (W×D×H)	75 Ω coaxial aerial plug
	652 mm x 517 mm x 612 mm
Weight (Mass)	53 kg (Net)

Note : / Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

⚠ WARNING

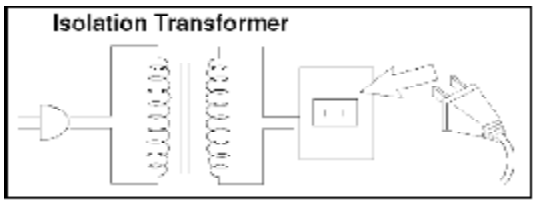
This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

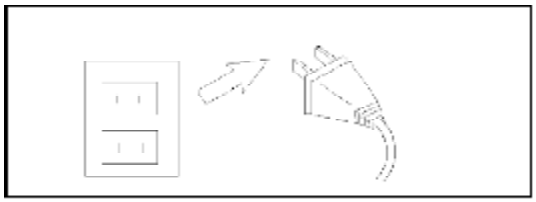
1. SAFETY PRECAUTIONS

1.1. General Guide

1. **It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.**



2. **When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
3. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.**
4. **When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.**

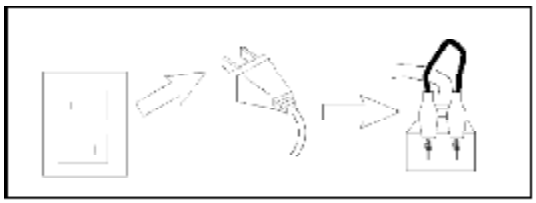


5. **Potential, as high as 32.0 kV is present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the receiver chassis before handling the tube.**

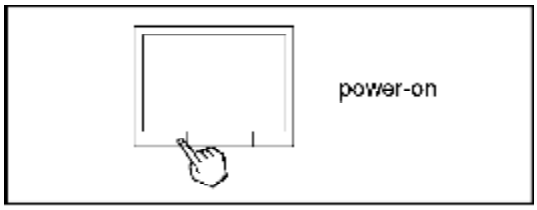
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.



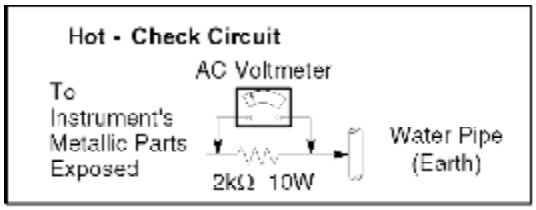
2. Turn on the receiver's power switch.



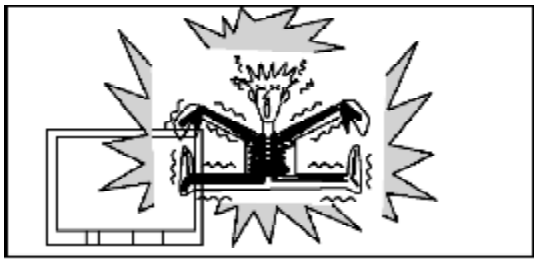
3. Measure the resistance value, with an ohmmeter, between the jumper AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4 MΩ and 20 MΩ. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

1.3. Leakage Current Hot Check (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ, 10 W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.



5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential any point should not exceed 1.0 V rms. In the case of a measurement being outside of the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.**



1.4. X-Radiation

Warning :

1. **The potential sources of X-Radiation in TV sets are the EHT section and the picture tube. /**
2. **When using a picture tube test rig for service, ensure that the rig is capable of handling 32.0 kV without causing X-Radiation. /**

Note: It is important to use an accurate periodically calibrated high voltage meter. /

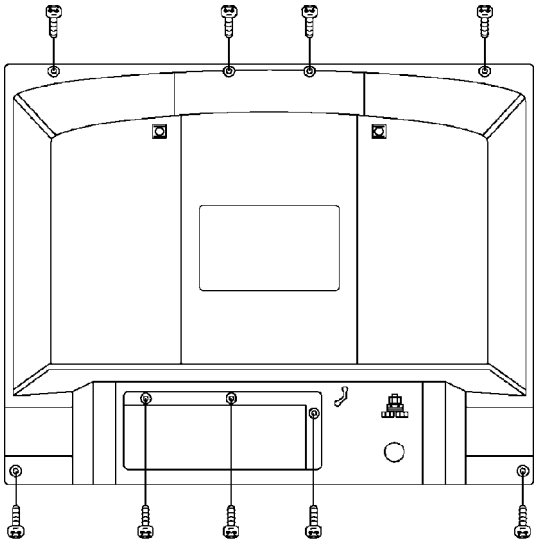
1. **Set the brightness to minimum.**
2. **Measure the High Voltage. The meter reading should indicate 31.0 ± 1 kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.**
3. **To prevent the possibility of X-Radiation, it is essential to use the specified picture tube.**

2. SERVICE HINTS

2.1. HOW TO REMOVE THE REAR COVER

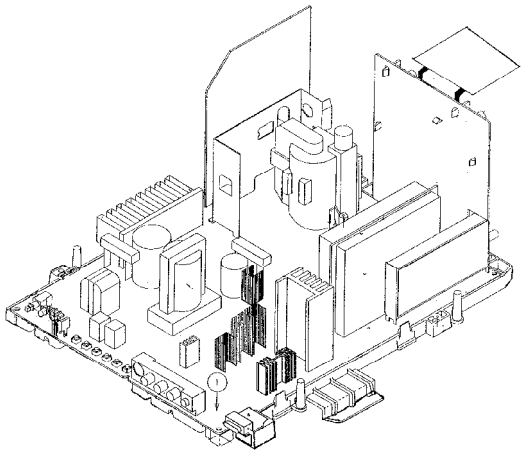
1. **Remove the 9 screws as shown in Fig. 1.**

Fig. 1



2.2. LOCATION OF CONTROLS

Fig. 2



2.3. HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. **Hold and lift the rear of the chassis and gently pull the chassis towards you as shown in Fig. 3.**
2. **Release the respective wiring clips and rotate the chassis vertically through 90° anticlockwise.**
3. **After servicing replace the bead clamper and ensure all wiring is returned to its original position before returning the receiver to the customer.**

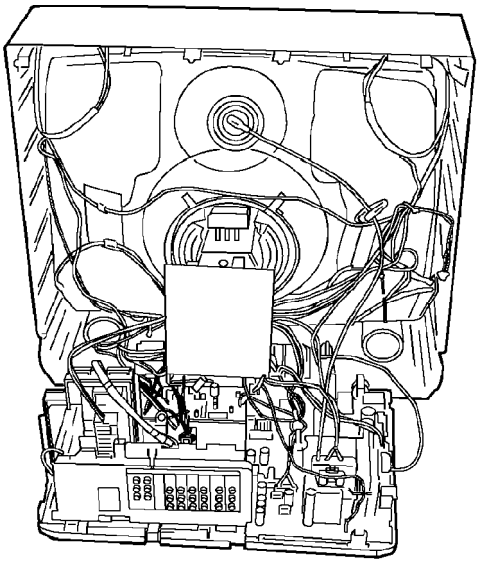


Fig. 3.

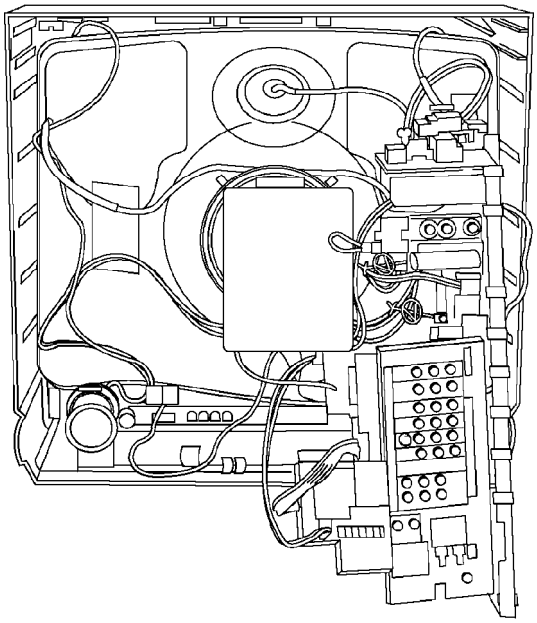


Fig. 4.

2.4. HOTEL MODE

Purpose

1. **At Hotels, this Mode prevents the customer from changing the TV preset data such as Channel preset data. / / Note: This Mode is useful for Hotels. You should not get into “Hotel mode” with Normal use.**

Operation

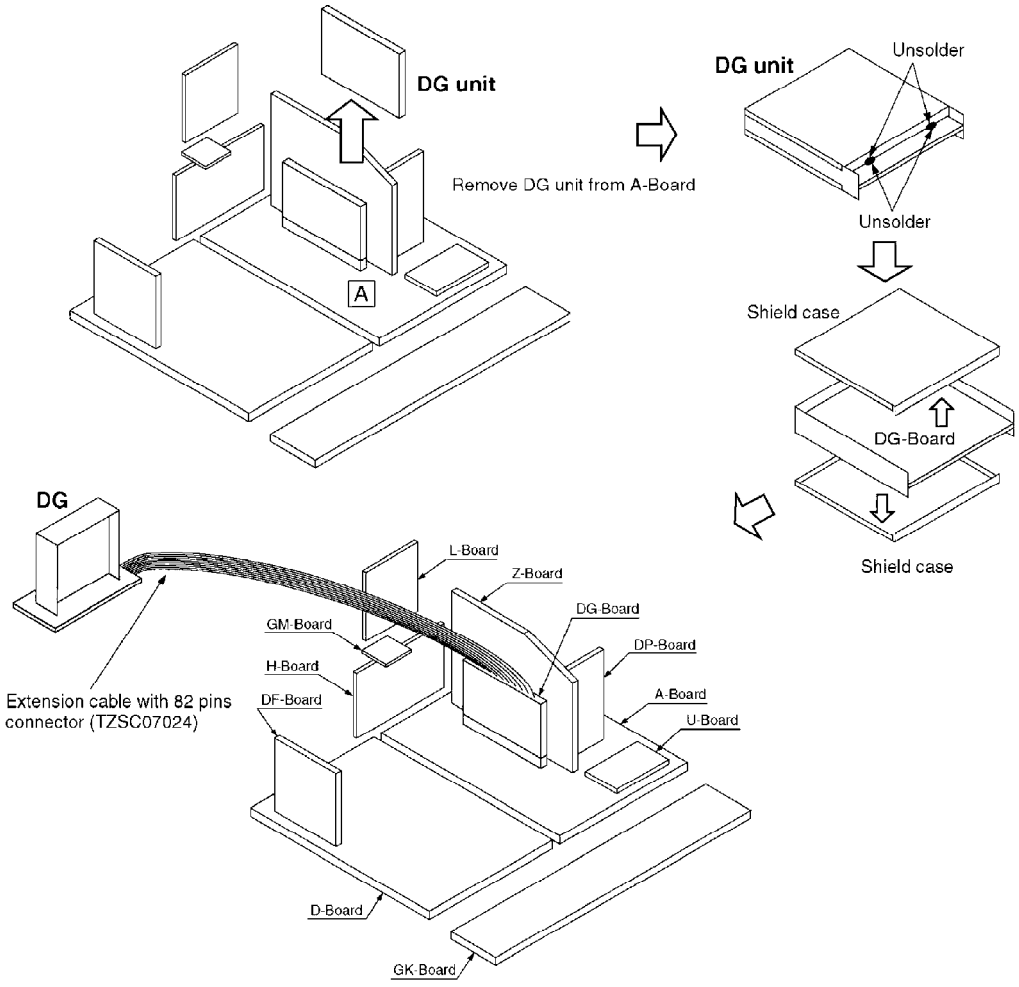
1. **To get into “Hotel Mode”, press the remote control “Recall”**

button and Channel Up “[+/^]” key on the TV set simultaneously, after setting the “Off-Timer” mode.

2. **In this mode, the Channel Up and Down Function will be enabled as normal and the maximum volume level for this mode is set at the current volume level, ie the setting at the level before entering the mode. However, other functions will be disabled.**
3. **To exit this mode, exit “Off-Timer” mode and the “Volume Down [-/v]” key simultaneously. / * This information is informed by Service Manual only.**

2.5. Service Position for DG-Board

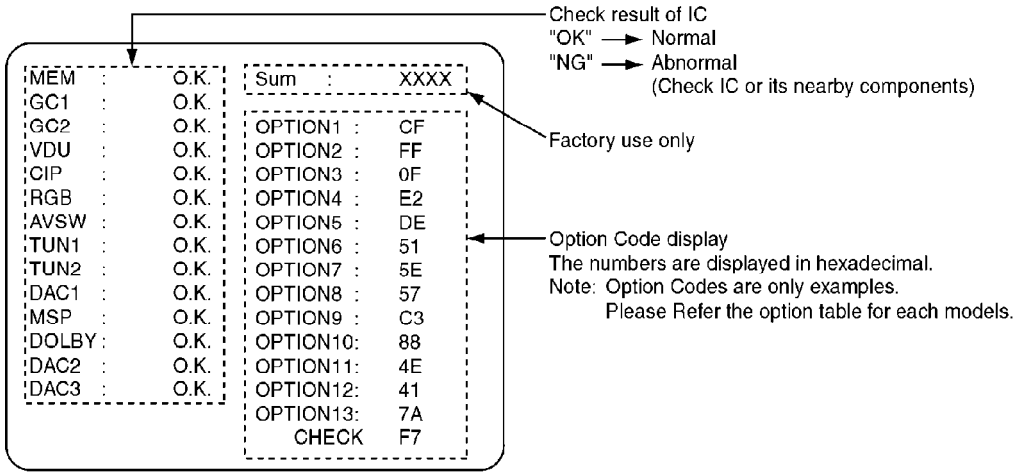
Note: / Extension cable kit for DG Board is supplied as service fixtures and tools. (Part No. TZSC07024)



3. SELF CHECK

1. **Self Check is used to automatically check the bus lines and hexadecimal code of the TV set.**

2. **To get into the Self Check mode, press the down n [-/ V] button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control and the screen will show:**



4. SERVICE MODE FUNCTION

MPU controls the functions switching for each IIC through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

4.1. HOW TO ENTER SERVICE 1

1. **In sound menu, set BASS to MAX and set TREBLE to MINIMUM.**
2. **Simultaneously press INDEX button on remote control and VOLUME DOWN button [-] on the TV set.**

4.2. HOW TO ENTER SERVICE 2

1. **Set the channel to CH99.**
2. **Press HOLD button on remote control. / Note: / To exit Service mode, press N or Power button on remote control.**

SERVICE 1

Function	Average Data
H-Pos	87
V-Pos	69
H-Amp	80
V-Amp	144
Parabola	42
Trapezid	123
H-Parallel	7
V-Linear	33
Top-Corner	22
Bottom-Corner	21
V-S-Correct	12
C-Correct	7
DAF-Phase	189
R High (Drive)	158
G High (Drive)	140
B High (Drive)	174
R Low (Cut off)	412
G Low (Cut off)	384
B Low (Cut off)	299
Sub-Bright	88
Sub-Geomagnetic	135
RF AGC 1	23
Sub-Contrast	103
Sub-Colour	38
Sub-NTSCTint	2
SECAM B-Y	194
SECAM R-Y	69
RF AGC 2	25
Sub-NTSCTint2	-5
Sub SECAM B-Y	193
Sub SECAM R-Y	68
Video Gain 2	144
SPL, Gain	0

- Press the RED/GREEN button to step Up/Down through the functions.
- Press the YELLOW/BLUE button to change the function values.
- Press the STR button after each adjustment has been mode to store the required values.

①Set the Aspect mode 16:9.

a. Receive PAL signal and adjust each item.

b. Next, receive NTSC signal and adjust each time.

②Set the Aspect mode 4:3.

a. Receive PAL signal and confirm the picture.
Adjust each item if necessary.

b. Next, receive NTSC signal and confirm the picture.
Adjust each item if necessary.

CH99 + HOLD button

CH99 + INDEX button

SERVICE 2

Function	TC-34P150X		Function	TC-34P150X	
	Singapore	Middle East		Singapore	Middle East
Y/C Delay	FF	FF	OPTION 8	F7	F7
OPTION 1	FF	FF	OPTION 9	3C	3C
OPTION 2	E2	00			
OPTION 4	DF	DF			
OPTION 5	F3	F7			
OPTION 6	HF	4F			
OPTION 7	FD	FD			

		DATA		
option 1		00		
	b0		colour system (TV)	PAL(1)
	b1			SECAM(1)
	b2			NTSC(1)
	b3			M.NTSC(1)
	b4		colour system (AV)	PAL(1)
	b5			SECAM(1)
	b6			NTSC(1)
	b7			M.NTSC(1)
option 2		01		
	b0		CH Plan	ASIA / M.E. / HK / UK / CHINA (1)
	b1			NZ / INDNES (1)
	b2			AUSTRALIA (1)
	b3			E.EUROPE (1)
	b4			SPECIAL (1)
	b5			AMERICA (1)
	b6			CATV (1)
	b7			JAPAN (1)
option 3		00		
	b0		A2 enable	4.5 (1)
	b1			5.5 (1)
	b2			6.0 (1)
	b3			6.5 (1)
	b4		NICAM enable	4.5 (1)
	b5			5.5 (1)
	b6			6.0 (1)
	b7			6.5 (1)
option 4		01		
	b0		A2 select 6.5MHz	5.742MHz (0) 6.742MHz (1)
	b1		NICAM priority	ASIA / M.E. (1)
	b2			HK / UK (1)
	b3			CHINA (1)
	b4			NZ / INDONESIA (1)
	b5			AUSTRALIA (1)
	b6			E.EUROPE (1)
	b7			SPECIAL (1)

option 5		00		
	b0		Virtual Dolby Surround	enable (1)
	b1		NICAM C4 bit	enable (1)
	b2		Noise mute	Noise mute enable (1)
	b3		Monitor out AV1 mute	Monitor out AV1 mute (1)
	b4		SIF	4.5 (1)
	b5			5.0 (1)
	b6			5.5 (1)
	b7			6.0 (1)
option 6		00		
	b0		Reserved	Geomagnetic Enable (1)
	b1		Geomagnetic Sensor	Geomagnetic sensor enable (1)
	b2		Geomagnetic Polarity	Geomagnetic polarity Plus + (0), Minus - (1)
	b3		P.NR.	Enable (1)
	b4		SASC enable	SASC enable (1)
	b5		Search speed	Slow (1) Fast (0)
	b6		VCR / GAME in search	On (0) Off (1)
	b7		Tuner	MACC tuner (0), ALPS tuner (1)
option 7		00		
	b0		TEXT	enable (1)
	b1		TEXT TOP	TOP enable (1)
	b2		TEXT language	English (1)
	b3			Cyrillic (1)
	b4			E Europe 1 (1)
	b5			E Europe 2 (1)
	b6			Arabic (1)
	b7		free	
option 8		00		
	b0		VGA	enable (1)
	b1		Reserved	1080i Enable (1)
	b2		Reserved	ID-1 Enable (1)
	b3		Australia	enable (1)
	b4		OSD Language	ARABIC (1)
	b5			RUSSIAN (1)
	b6			CHINESE (1)
	b7		free	
option 9		00		
	b0		Panasonic LOGO	Display (1)
	b1		MPX status	Display (1)
	b2		Scan mode AUTO for P-NTSC	Progressive2 (0), Progressive1 (1)
	b3		free	
	b4		free	
	b5		free	
	b6		X-ray protection	Enable (1)
	b7		5V detect protection	Enable (1)

5. ADJUSTMENT PROCEDURE

5.1. VOLTAGE CONFIRMATION

Item/Preparation	Adjustment Procedure
1. Operate the TV set. **2. Set controls : / Bright Minimum / Contrast Minimum / Volume Minimum**	**1. TPA55 : 144.8 ± 1.0V (D-Board)** **2. TPA56 : 12.0 ± 1.0V (D-Board)** **3. TPA57 : 9.0 ± 1.0V (D-Board)** **4. TPA17 : 2.5 ± 0.25V (D-Board)**

5.2. E.H.T CHECK

Item/Preparation	Adjustment Procedure
1. Receive an RF signal, window or crosshatch pattern. 2. Set the Brightness and Contrast to minimum (0 Beam) 3. Connect the High Voltage Voltmeter to the CRT ANODE CAP. 4. The set should be switched to AV (no input) contrast and brightness minimum.	1. Check the EHT voltage is (32.0±1.0) kV. 2. Switch from AV mode to TV. 3. With the Brightness and the contrast controls MAX, check th voltage does not drop more than 3.0 kV from the above measur R.F. signal.

5.3. SUB CONTRAST

Item/Preparation	Adjustment Procedure
1. Receive PAL colour bar pattern. 2. Connect oscilloscope to A21 pin 3. 3. Set controls: / BRT.....CENTER / COLOUR.....CENTER / CONTRAST....MAX / AI.....OFF	1. Adjust Sub Contrast (Service 1) : / A=3.85± 0.1V **Fig. 1** 2. Adjust Video gain 2 (Service 1) so that Sub picture level B be same as Main picture level A. **Fig. 2**

5.4. SUB TINT

Item/Preparation	Adjustment Procedure
1. Receive a 3.58 MHz NTSC rainbow pattern. 2. Connect oscilloscope to A21 pin 6. 3. Set controls: / BRT.....CENTER / COLOUR.....CENTER / CONTRAST....MAX / NTSC TINT.....CENTER / AI.....OFF	1. Adjust Sub NTSC Tint so that the peak of level of waveform i Fig. 3. **Fig. 3** 2. Receive the Rainbow pattern (3.58 MHz NTSC) on both of Ma pictures. 3. Adjust Sub NTSC TInt 2 so that the peak of level of waveform to Fig. 4. **Fig. 4**

5.5. SUB COLOUR

Item/Preparation	Adjustment Procedure
1. Receive a 3.58 MHz NTSC rainbow pattern. 2. Connect oscilloscope to A21 pin 3. 3. Set controls: / BRT.....CENTER / COLOUR.....CENTER / CONTRAST....MAX / AI.....OFF	1. Adjust Sub Colour: / A=3.3±0.5V **Fig. 5**

5.6. SECAM BLACK LEVEL

Item/Preparation	Adjustment Procedure
1. Receive SECAM white pattern. 2. Connect oscilloscope to A44 pin 39. 3. Set controls: / BRT.....CENTER / COLOUR.....CENTER / CONTRAST....MAX / AI.....OFF	1. Adjust SECAM B-Y so that H-blanking time and colour center level. **Fig. 6** 2. Connect oscilloscope to A44 pin 41. 3. Adjust SECAM R-Y OUT so that H-blanking time and colour c equal level. **Fig. 7** 4. Connect oscilloscope to A44 pin 39. 5. Receive SECAM white pattern on both Main and Sub picture. 6. Adjust Sub SECAM B-Y so that H-blanking time and colour c equal level. **Fig. 8** 7. Connect oscilloscope to A44 pin 41. 8. Adjust Sub SECAM R-Y so that H-blanking time and colour c equal level. **Fig. 9**

5.7. VRS ADJUSTMENT

1. PREPARATION

A. Set DY to CRT not to tilt Up and Down and Left and Right deflection. (Fig. 1)

B. Set CY to CRT and set CY magnet primarily. / Pur Mg : Set Pur Mg that 2 magnets are vertical position. / VRS Mg : Set VRS Mg that 2 magnets are side position.

C. Set geomagnetic correction DAC [0].

2. ADJUSTMENT

A. Receive the white balance pattern.

B. Adjust V-CENTER.

C. Set R,B CUT OFF to minimum (0), and set G CUT OFF to center (511).

D. Receive the aging pattern.

E. Set 2 magnets of vertical position to Up and Down equally so that it will be at center part of CRT. (Fig. 3)

Fig. 1

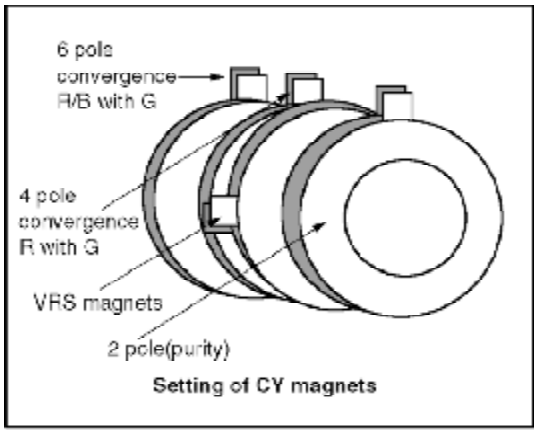


Fig. 2

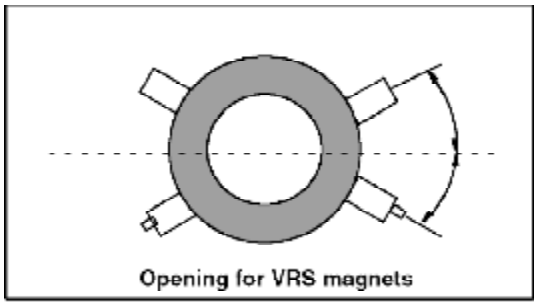
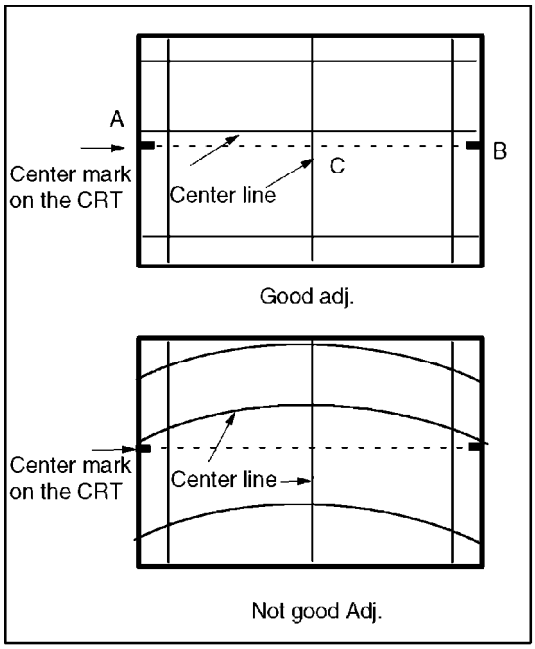


Fig. 3



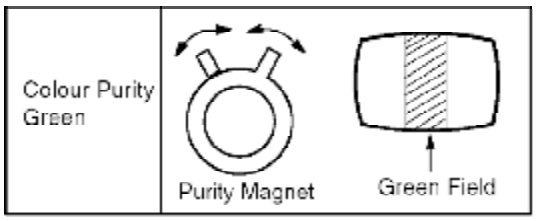
5.8. COLOUR PURITY

1. Operate the TV set for over 60 minutes.

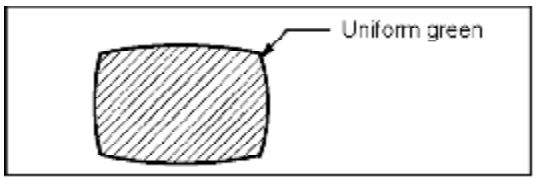
2. Receive a purity pattern signal. (white pattern)

3. Set Bright and Contrast controls to their maximum positions.

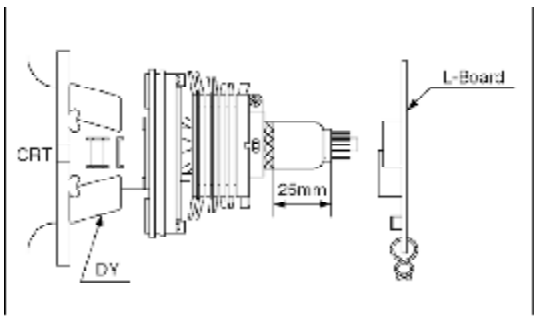
4. Set V-POS to 128.
5. Adjust roughly the static convergence magnets.
6. Fully degauss the picture tube using an external degaussing coil.
7. Loosen a clamp screw for the Deflection Yoke and move the Deflection Yoke as close to the purity magnet as possible.
8. Adjust the purity magnet so that a vertical green field is obtained at the center of the screen.



9. Slowly press the Deflection Yoke and set it where a uniform green field is obtained.



10. Adjust roughly the Low Light controls and make sure that a uniform white field is obtained.
11. Tighten the clamp screw.



5.9. CONVERGENCE

1. INSTRUMENT
   A. Helmhortz device
2. PREPARATION
   A. Set the Helmhortz device to local magnetic field. / Horizontal : 0 ± 0.03 x10^{-4} T

B. Receive the cross hatch pattern.

C. Picture menu : DYNAMIC Normal and adjust BRIGHT DAC until gray portion of cross hatch.

D. Set DY to CRT not to tilt (Up and Down and Left and Right).

3. ADJUSTMENT

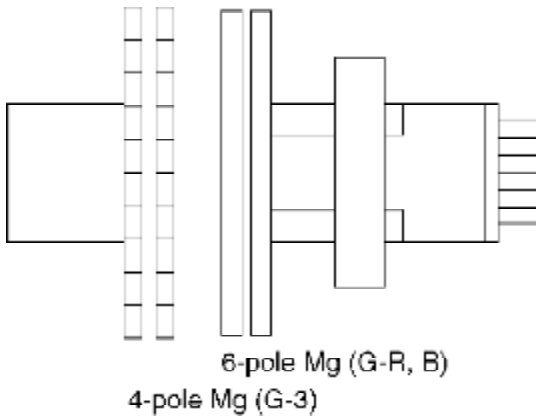
A. Static Convergence Adjustment

a. Make sure that magnets are positioned shown in Fig. 1.

b. Adjust 4-pole magnets (Fig. 1) to align center dots of R and B and adjust 6-pole magnets to align center dots to G.

c. After adjustment, secure magnets with magnet lock of white lacquer. / *Beams move with rotating when static magnets are turned. / Rotational reduce of beams differs by angle of two magnets. / Therefore, repeat magnet adjustments several times so that all are aligned completely.

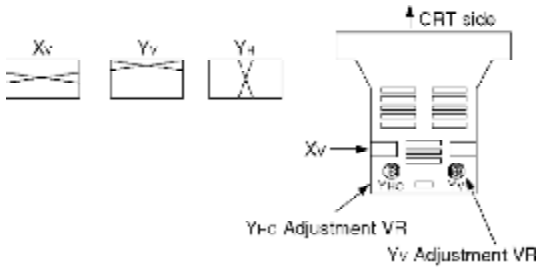
Fig. 1



B. YHC, YV, XV, Adjustment (Fig. 2)

a. Adjust so that Static and Dynamic Convergence is best with YHC, VR, YV and XV coil. / In case of Static Convergence is tilted, repeat (1) Static Convergence Adjustment.

Fig. 2



C. Dynamic Convergence Adjustment

a. When dynamic convergence is bad, fixing permalloy between

neck and DY so that dynamic convergence is best.

4. Confirm that left upper side line is straight. / When left upper side line isn't straight, put magnet on DY and adjust the left upper side line to straight.

5.10. CUT OFF

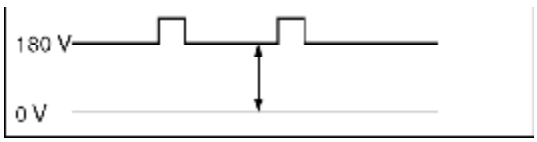
Preparation

1. Receive a colour bar signal with colour "OFF", and operate the TV set more than 15 minutes.
2. Set the picture menu to "DYNAMIC NORMAL" and the AI to off.
3. Connect an oscilloscope to TPL7 with DC mode.
4. Set the TV set to Service Mode 1.
5. Screen VR : Min.
6. Set the data level of SUB BRIGHT, R, G, B-CUTOFF and R, G, B-DRIVE to the table values.

Display	Data Level
R High (R-CUT OFF)	128
G High (G-CUT OFF)	128
B High (B-CUT OFF)	128
R Low (R-DRIVE)	175
G Low (G-DRIVE)	175
B Low (B-DRIVE)	175
SUB BRIGHT	128

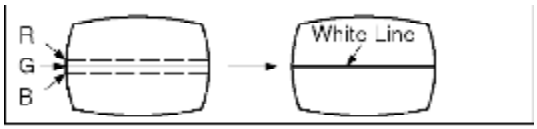
Adjustment

1. Select G-CUTOFF adjustment mode and collapse vertical scan.
2. Adjust G-CUTOFF control to become the DC=0V to video level at 180V as shown below:



3. Slowly turn the screen control clockwise until a green colour horizontal line appears on the picture tube. This is the setting point for the screen control. / Note that do not adjust the G-CUTOFF setting in the following procedure.

4. **Adjust the remained R and B-CUTOFF controls so as to get a white horizontal line on the screen.**



5. **Return to full field SCAN by pushing the position 5 key on the remote control.**
6. **Adjust the R-Drive and B-Drive controls as to obtain uniform white on the white bar of the greyscale pattern.**
7. **Confirm correct B/W rendition and greyscale tracking or repeat CUTOFF and drive control setup. / Note: / Write down the original value for each address adjustment before adjusting anything.**

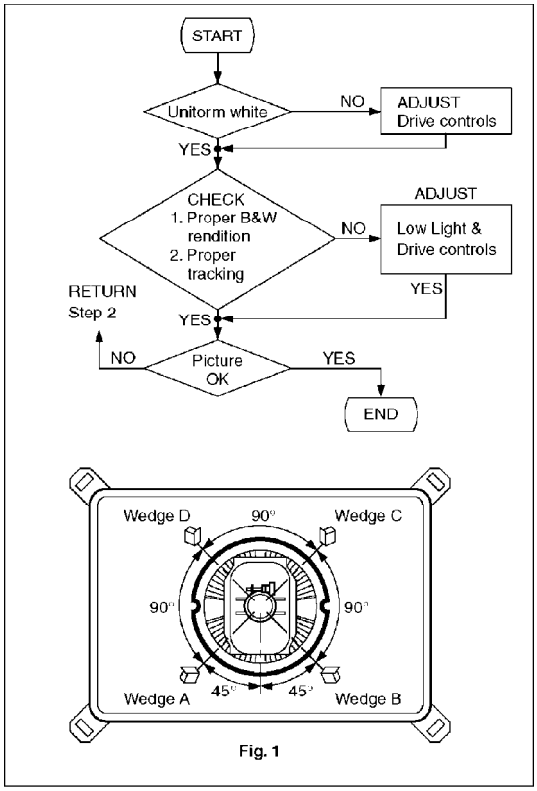


Fig. 1

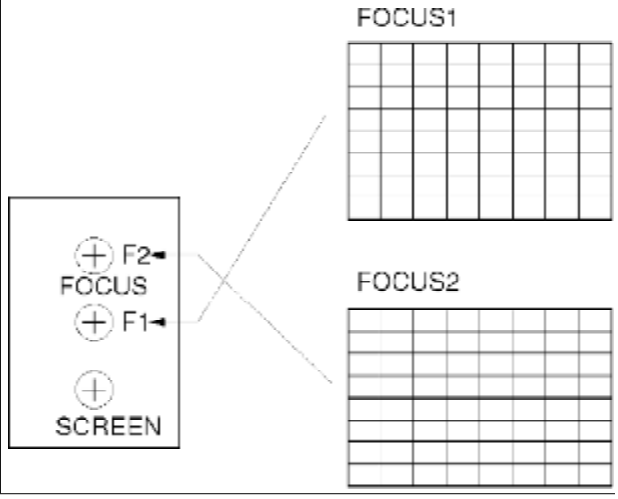
8. **Wedge A shown in Fig. 1 should be fixed within a range of 45° to the left of the vertical line as shown.**
9. **After inserting wedge A, insert wedges B, C and D. / The wedges should be set 90° apart from each other.**

10. Be certain that the four wedges are firmly fixed and the Deflection Yoke is tightly clamped in place otherwise the Deflection Yoke may shift its position and cause a loss of convergence and purity.

5.11. WHITE BALANCE

Item/Preparation	Adjustment Procedure
1. Select Service Mode 1. 2. Aging should have been performed over 30 minutes. 3. Receive the white balance pattern. 4. Picture menu : DYNAMIC NORMAL / AI : OFF 5. Degausse the CRT face. 6. Connect the photo sensors of the Colour Analyser to the CRT. / Note: / CRT cut off adjustment is completed.	1. Adjustment of Low Light A. Adjustment SUB BRIGHT, so that "Y" axis indicates 6.5. B. Adjustment R-CUT OFF, so that "Y" axis indicates 0.293. C. Adjustment B-CUT OFF, so that "X" axis indicates 0.273. 2. Adjustment of High Light A. Adjust SUB BRIGHT, so that "Y" axis indicates 150. B. Adjust R-DRIVE, so that "Y" axis indicates 0.277. C. Adjust B-DRIVE, so that "X" axis indicates 0.271.

5.12. Focus

Item/Preparation	Adjustment Procedure
1. Receive a cross-hatch pattern signal.	1. Adjust the Focus to thin all the Lines by Focus 1 Control. / (Prefer to thin the Vertical Lines than Horizontal Line.) 2. Adjust the Focus to thin the Horizontal Lines by Focus 2 Control. 

5.13. Geomagnetic

Item/Preparation	Adjustment Procedure
1. Demagnetize the GM-Board around its perimeter with the Demagnetizer. 2. Set to control: / Geomagnetic.....Auto	1. Connect a DC voltage meter to TPGM1-2pin (GM-Board) 2. Adjust the R4863 (GM-Board) so that the Vx Out at TPGM1-2pin becomes 4.9 ± 0.05 V 3. Connect a DC voltage meter to TPGM1-1pin (GM Board). 4. Adjust the R4861 (GM-Board) so that the Vy Out at TPGM1-1pin becomes 4.9 ± 0.05 V

5.14. SUB BRIGHT

Item/Preparation	Adjustment Procedure
1. Receive the sub bright pattern. 2. Picture Menu: / BRT.....CENTER / COLOUR.....CENTER / CONT.....MAX 3. Connect the photo sensor of the Colour Analyser to the center of the CRT.	1. Adjust Sub Bright so that brightness level becomes 1 ± 0.2 cd/m2.

6. DEFLECTION ADJUSTMENT

6.1. V-ADJUSTMENT/CONFIRMATION (4:3 MODE)

6.1.1. V-HOLD CONFIRMATION

1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Set aspect to 4:3.
4. Confirm that V-hold is normal.
5. Set the fix data in the Table 1.

6.1.2. V-CENTER ADJUSTMENT (4:3 MODE)

6.1.2.1. 100i V-POS ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust V-POS (100i / 4:3) so that the scale of the top and bottom side is equal.

6.1.2.2. 120i V-POS ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust V-POS (120i / 4:3) so that the scale of the top and bottom side is equal.

6.1.2.3. 50p V-POS ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Adjust V-POS (50p / 4:3) so that the scale of the top and bottom side is equal.

6.1.2.4. 60p V-POS ADJUSTMENT

1. Receive NTSC monoscope pattern.

2. Set scan mode to progressive by remote control key.
3. Adjust V-POS (60p / 4:3) so that the scale of the top and bottom side is equal.

Fig. 1

6.1.3. V-HEIGHT ADJUSTMENT (4:3 MODE)

6.1.3.1. 100i V-AMP ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to 100 Hz by remote control key.
3. Adjust V-AMP (100i / 4:3) so that B, D (Fig. 2) is 2.1± 0.1.

6.1.3.2. 120i V-AMP ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to 100 Hz by remote control key.
3. Adjust V-AMP (120i / 4:3) so that B, D (Fig. 2) is 2.1± 0.1.

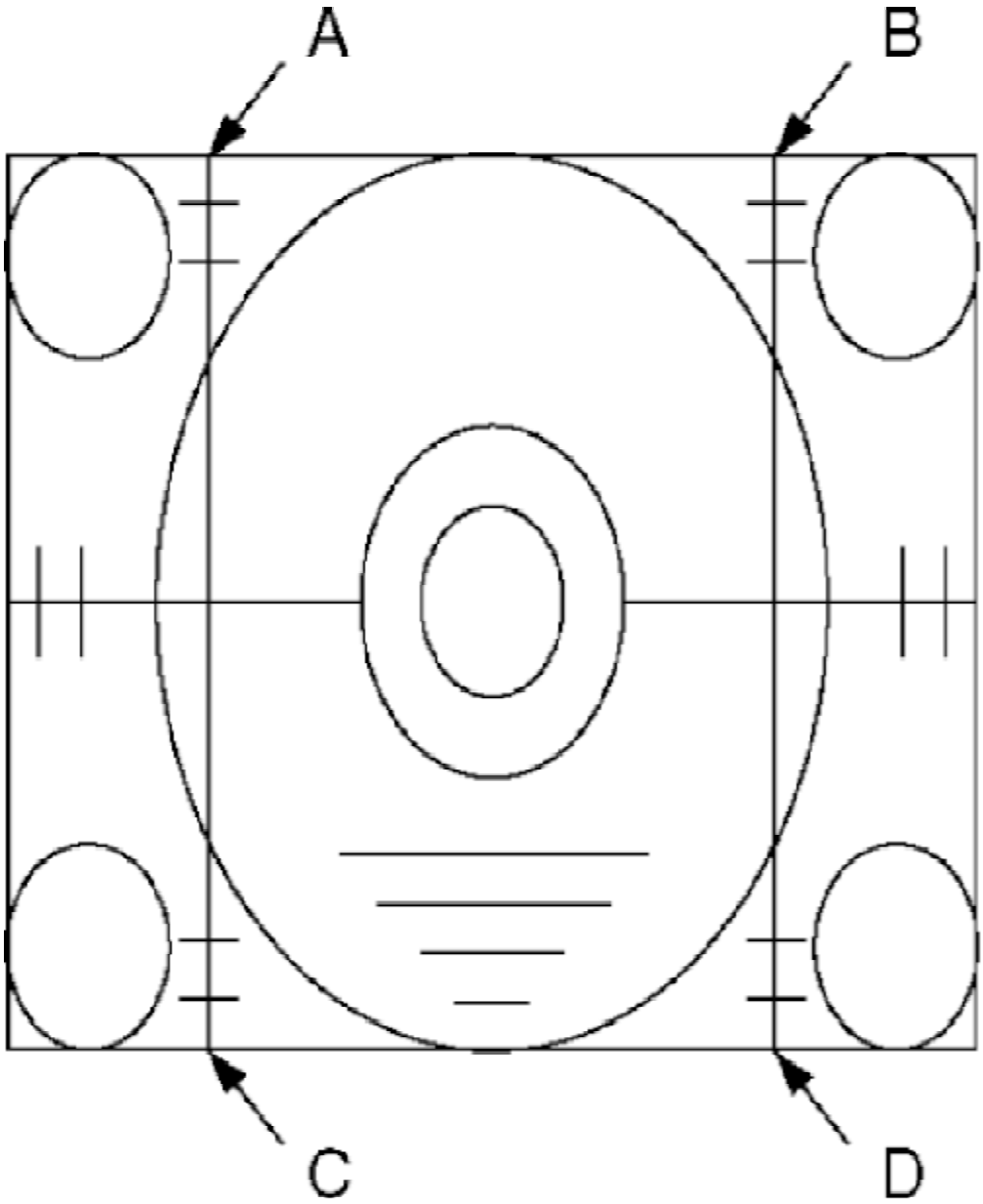
6.1.3.3. 50p V-AMP ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Adjust V-AMP (50p / 4:3) so that B, D (Fig. 2) is 2.1± 0.1.

6.1.3.4. 60p V-AMP ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Adjust V-AMP (60p / 4:3) so that B, D (Fig. 2) is 2.1± 0.1.

Fig. 2



6.2. H-DEFLECTION CONFIRMATION/ADJUSTMENT (4:3 MODE)

6.2.1. H-HOLD CONFIRMATION

1. Receive PAL monoscope pattern.
2. Set scan mode to 100 Hz by remote control key.
3. Set aspect to 4:3.
4. Confirm that H-hold is normal.

6.2.2. H-CENTER ADJUSTMENT (4:3 MODE)

6.2.2.1. 100i H-POS ADJUSTMENT

1. Receive PAL monoscope pattern.

2. Set scan mode to 100 Hz by remote control key.
3. Adjust H-POS (100i / 4:3) so that the horizontal position is center of CRT.

6.2.2.2. 120i H-POS ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to 100 Hz by remote control key.
3. Adjust H-POS (120i / 4:3) so that the horizontal position is center of CRT.

6.2.3. H-WIDTH ADJUSTMENT (4:3 MODE)

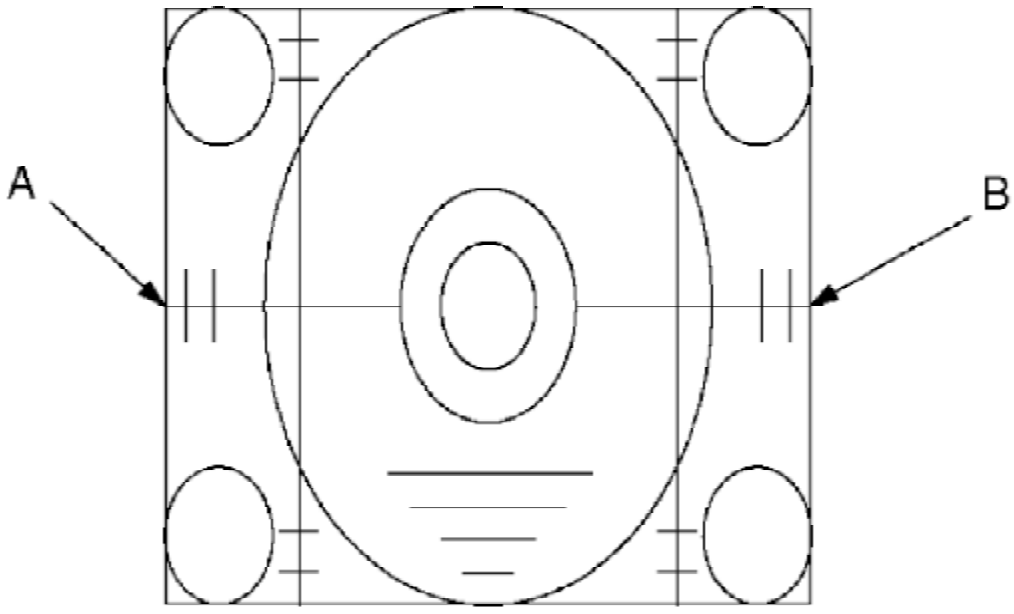
6.2.3.1. 100i H-AMP ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to 100 Hz by remote control key.
3. Adjust H-AMP (100i / 4:3) so that both of the edges are within A, B =2.5 ± 0.2.

6.2.3.2. 120i H-AMP ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to 100 Hz by remote control key.
3. Adjust H-AMP (120i / 4:3) so that both of the edges are within A, B =2.5 ± 0.2.

Fig. 3



6.3. EW ADJUSTMENT/CONFIRMATION (4:3 MODE)

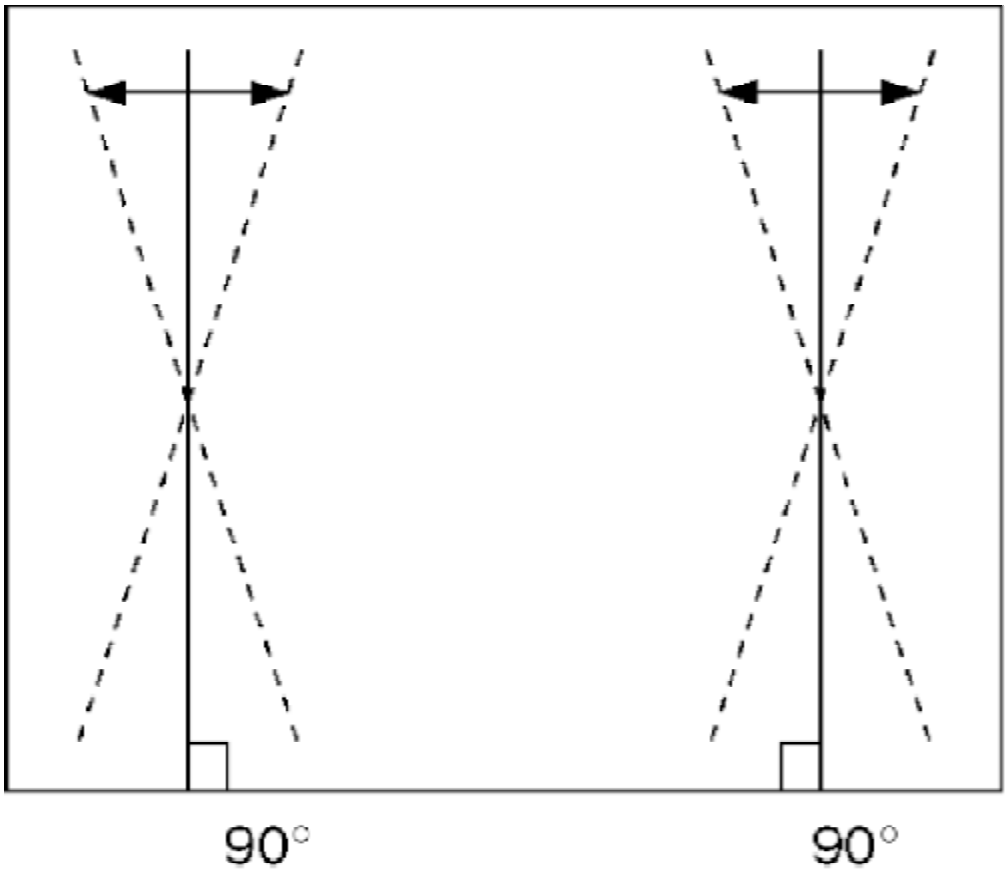
6.3.1. 100i SIDE EW ADJUSTMENT (4:3 MODE)

1. Receive PAL cross-hatch pattern.
2. Set scan mode to 100 Hz by remote control key.
3. Adjust the vertical line to straight by Parabola (100i / 4:3).
4. Adjust the vertical line to straight line of both sides vertical line in Fig. 4 by Trapezoid (100i / 4:3).
5. Confirm there is no H-parallel distortion. / If there is distortion, adjust by H-Parallel (100i / 4:3). / In that case, repeat 4 and 5 so that there is no trapezoid / parallel distortion.
6. Confirmation vertical EW of the corner side. / If need, adjust Top-Corner (100i / 4:3) and Bottom Corner (100i / 4:3).
7. Confirm bow level of the both side. / If it is not symmetrical, adjust C-Correct (100i / 4:3).

6.3.2. 120i SIDE EW ADJUSTMENT (4:3 MODE)

1. Receive NTSC cross-hatch pattern.
2. Set scan mode to 100 Hz by remote control key.
3. Adjust the vertical line to straight by Parabola (120i / 4:3).
4. Adjust the vertical line to straight line of both sides vertical line in Fig. 4 by Trapezoid (120i / 4:3).
5. Confirm there is no H-parallel distortion. / If there is distortion, adjust by H-Parallel (120i / 4:3). / In that case, repeat 4 and 5 so that there is no trapezoid / parallel distortion.
6. Confirmation vertical EW of the corner side. / If need, adjust Top-Corner (120i / 4:3) and Bottom Corner (120i / 4:3).
7. Confirm bow level of the both side. / If it is not symmetrical, adjust C-Correct (120i / 4:3).

Fig. 4



6.3.3. 50p SIDE EW ADJUSTMENT (4:3 MODE)

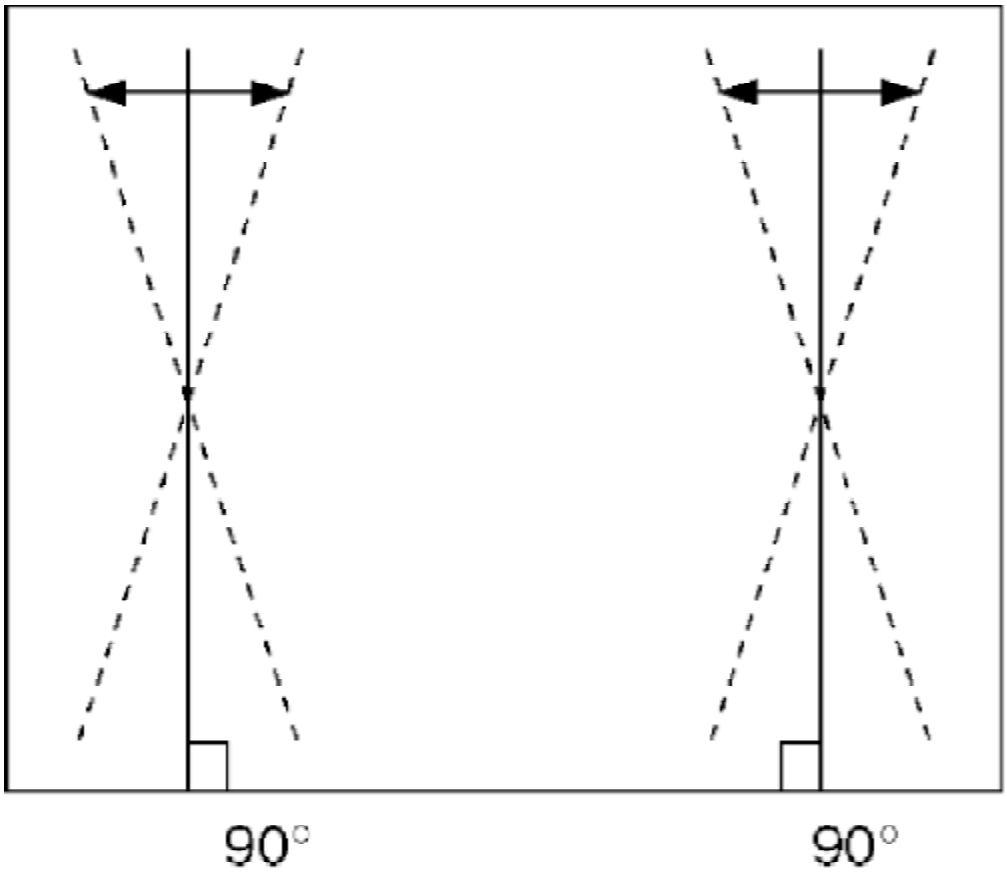
1. Receive PAL cross-hatch pattern.
2. Set scan mode to progressive by remote control key.
3. Adjust the vertical line to straight by Parabola (50p / 4:3).
4. Adjust the vertical line to straight line of both sides vertical line in Fig. 5 by Trapezoid (50p / 4:3).
5. Confirm there is no H-parallel distortion. / If there is distortion, adjust by H-Parallel (50p / 4:3). / In that case, repeat 4 and 5 so that there is no trapezoid / parallel distortion.
6. Confirmation vertical EW of the corner side. / If need, adjust Top-Corner (50p / 4:3) and Bottom Corner (50p / 4:3).
7. Confirm bow level of the both side. / If it is not symmetrical, adjust C-Correct (50p / 4:3).

6.3.4. 60p SIDE EW ADJUSTMENT (4:3 MODE)

1. Receive NTSC cross-hatch pattern.

2. Set scan mode to progressive by remote control key.
3. Adjust the vertical line to straight by Parabola (60p / 4:3).
4. Adjust the vertical line to straight line of both sides vertical line in Fig. 5 by Trapezoid (60p / 4:3).
5. Confirm there is no H-parallel distortion. / If there is distortion, adjust by H-Parallel (60p / 4:3). / In that case, repeat 4 and 5 so that there is no trapezoid / parallel distortion.
6. Confirmation vertical EW of the corner side. / If need, adjust Top-Corner (60p / 4:3) and Bottom Corner (60p / 4:3).
7. Confirm bow level of the both side. / If it is not symmetrical, adjust C-Correct (60p / 4:3).

Fig. 5



6.4. V LINIALITY ADJUSTMENT / CONFIRMATION (4:3 MODE)

6.4.1. 100i V-Linear ADJUSTMENT

1. Receive PAL monoscope pattern.

2. Set scan mode to 100 Hz by remote control key.
3. Confirm V-linear (100i / 4:3) as to the balance of circle. / If needed, adjust V-linear (100i / 4:3).

6.4.2. 120i V-Linear ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to 100 Hz by remote control key.
3. Confirm V-linear (120i / 4:3) as to the balance of circle. / If needed, adjust V-linear (120i / 4:3).

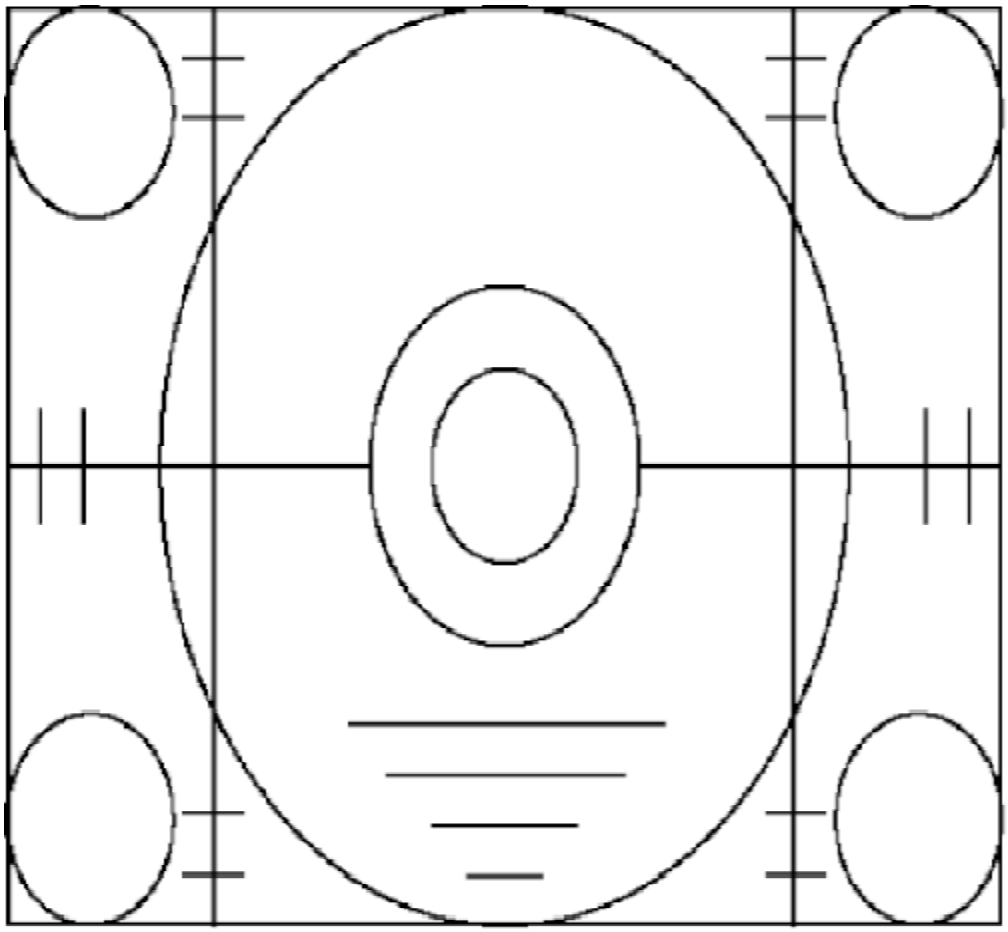
6.4.3. 50p V-Linear ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Confirm V-linear (50p / 4:3) as to the balance of circle. / If needed, adjust V-linear (50p / 4:3).

6.4.4. 60p V-Linear ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Confirm V-linear (60p / 4:3) as to the balance of circle. / If needed, adjust V-linear (60p / 4:3).

Fig. 6



6.5. DEFLECTION (16:9 MODE) ADJUSTMENT / CONFIRMATION

6.5.1. DATA SETTING (16:9)

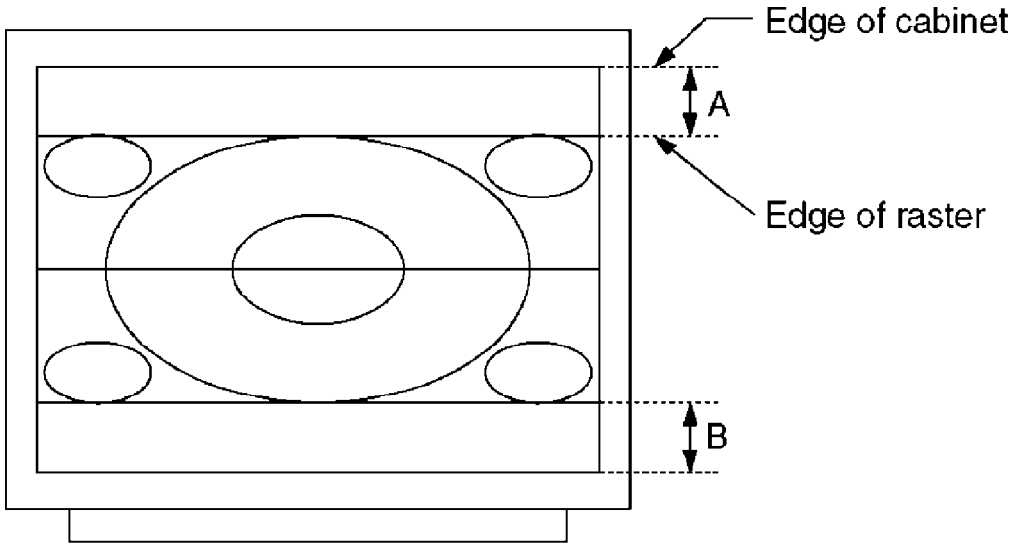
1. Copy the adjusted data of 100i / 4:3 mode to 100i / 16:9 in the Table. 1 (Except H-POS, V-S-Correct).
2. Copy the adjusted data of 120i / 4:3 mode to 120i / 16:9 in the Table. 1 (Except H-POS, V-S-Correct).
3. Copy the adjusted data of 50p / 4:3 mode to 50p / 16:9 in the Table. 1 (Except H-POS, H-AMP, V-S-Correct, C-Correct) and copy the data of 100i / 4:3 to 50p / 16:9 about H-AMP and C-Correct.
4. Copy the adjusted data of 60p / 4:3 mode to 60p / 16:9 in the Table. 1 (Except H-POS, H-AMP, V-S-Correct, C-Correct) and copy the data of 120i / 4:3 to 60p / 16:9 about H-AMP and C-Correct.

6.5.2. V-AMP (16:9) ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set the aspect to 16:9.

3. Set scan mode to 100 Hz.
4. Confirm that A, B in Fig. 7 is 6.0 cm ± 1 cm. If not, adjust V-AMP (100i / 16:9).
5. Set scan mode to progressive.
6. Confirm that A, B in Fig. 7 is 6.0 cm ± 1 cm. If not, adjust V-AMP (50p / 16:9).
7. Receive NTSC monoscope pattern.
8. Set scan mode to 100 Hz.
9. Confirm that A, B in Fig. 7 is 6.0 cm ± 1 cm. If not, adjust V-AMP (120i / 16:9).
10. Set scan mode to progressive.
11. Confirm that A, B in Fig. 7 is 6.0 cm ± 1 cm. If not, adjust V-AMP (60p / 16:9).

Fig. 7



6.6. 525p DEFLECTION ADJUSTMENT / CONFIRMATION

6.6.1. V, H-HOLD CONFIRMATION

1. Receive 525p signal.
2. Confirm V, H-hold is normal.

6.6.2. H-CENTER (525p) CONFIRMATION / ADJUSTMENT

1. Receive 525p signal.
2. Copy the data of 00h to EEROM ADDRESS [333] (525p / H-POS).

3. Copy the data of F5h to EEROM ADDRESS [332] (525p / H-POS).
4. Confirm H-center and if needed, adjust H-POS (525p).

6.7. 625p DEFLECTION ADJUSTMENT

6.7.1. H-CENTER (625p) ADJUSTMENT

1. Receive 625p signal.
2. Copy the data of EEROM ADDRESS [332] (525p / H-POS) to EEROM ADDRESS [330] (625p / H-POS).
3. Copy the data of EEROM ADDRESS [333] (525p / H-POS) to EEROM ADDRESS [331] (625p / H-POS).

6.8. VGA480 / 60 Hz DEFLECTION ADJUSTMENT / CONFIRMATION

6.8.1. V, H-HOLD CONFIRMATION

1. Receive VGA 480 (60 Hz) crosshatch pattern with border line.
2. Copy the data of 60p / 4:3 mode to VGA480 / 60 Hz mode in the Table 1.
3. Confirm V, H-hold is normal.
4. Set user control H-SIZE to “0”.

6.8.2. V-CENTER ADJUSTMENT

1. Adjust V-POS (VGA) so that center of the crosshatch pattern is center of the CRT.

6.8.3. V-HEIGHT ADJUSTMENT

1. Adjust V-AMP (VGA) so that A=B in Fig. 8.

6.8.4. H-CENTER ADJUSTMENT

1. Adjust H-POS (VGA) so that horizontal position is center of CRT.

6.8.5. H-WIDTH ADJUSTMENT

1. Adjust H-AMP (VGA) so that C=D in Fig. 8.

6.8.6. SIDE EW ADJUSTMENT

1. Adjust the vertical line to straight line by Parabola (VGA).
2. Adjust the vertical line to straight line of bothside vertical line in Fig. 9 by Trapezoid (VGA).

3. Confirm there is no H-Parallel distortion. / If there is distortion, adjust by H-Parallel (VGA). / In that case, repeat 2 and 3 so that there is no trapezoid / parallel distortion.
4. Confirmation vertical EW of the corner side. / If needed, adjust Top -Corner (VGA) and Bottom-Corner (VGA).
5. Confirm bow level of the both side. / If it is not symmetrical, adjust C-Correct (VGA).
6. Set H-SIZE in the user control to NORMAL. / (No need, if SELF CHECK is done before shipping.)

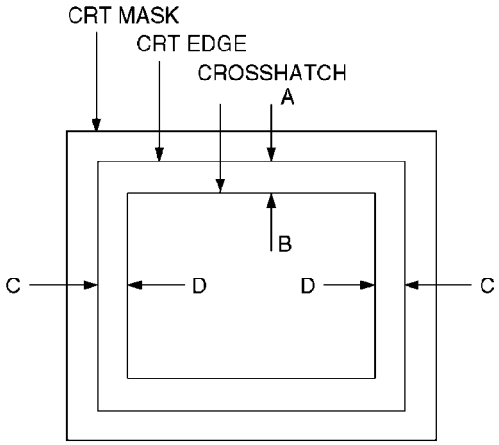


Fig. 8

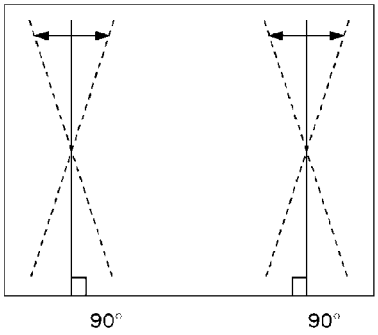


Fig. 9

6.9. VGA400 / 70 Hz DEFLECTION ADJUSTMENT / CONFIRMATION

6.9.1. V, H-HOLD CONFIRMATION

1. Receive VGA 400 (70 Hz) crosshatch pattern with border line.
2. Copy the data of VGA 480 / 60 Hz mode to VGA 400 / 70 Hz mode in Table 1.
3. Confirm V, H-hold is normal.
4. Set user control H-SIZE to “0”.

6.9.2. V-CENTER ADJUSTMENT

1. Adjust V-POS (VGA 400) so that center of the crosshatch pattern is center of the CRT.

6.9.3. V-HEIGHT ADJUSTMENT

1. Adjust V-AMP (VGA 400) so that A=B in Fig. 10.
2. Add 10 dac to the above date and set to EEPROM [336].

6.9.4. V-LINEARITY CONFIRMATION / ADJUSTMENT

1. **Confirm V-linear as to the balance of the circle. / If needed, adjust V-linear (VGA 400).**

6.9.5. SIDE EW CONFIRMATION / ADJUSTMENT

1. **Confirm the vertical line is straight line. / If needed, adjust the vertical line to straight line by Parabola (VGA 400).**
2. **Confirm both sides vertical line in Fig. 1 are straight line. / If needed, adjust the vertical line to straight line of both side vertical line in Fig. 11 by Trapezoid (VGA 400).**
3. **Set H-SIZE in the user control to NORMAL. / (No need, if SELF CHECK is done before shipping).**

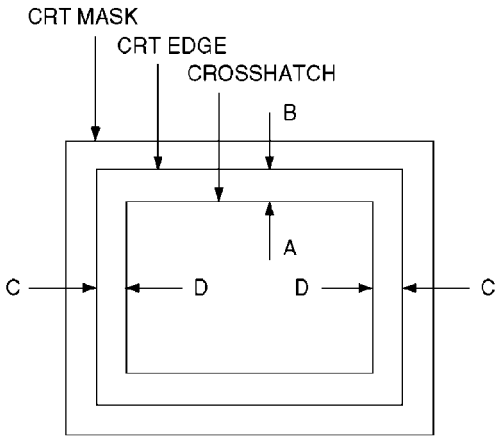


Fig. 10.

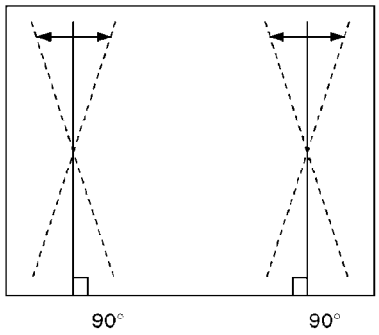
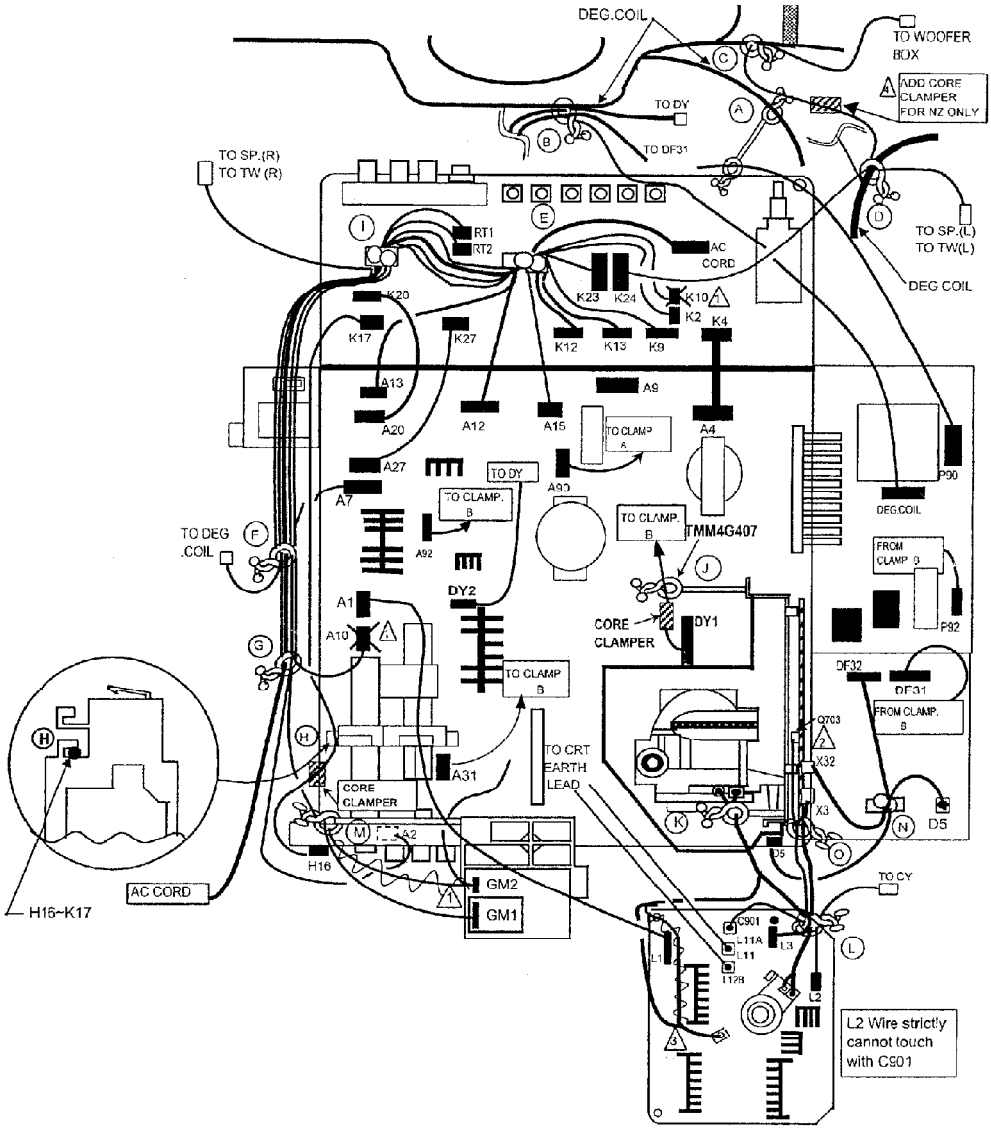


Fig. 11.

6.10. TABLE 1

mode	100i (PAL)	100i (PAL)	120i (NTSC)	120i (NTSC)	50p (PAL)	50p (PAL)	60p (NTSC)	60p (NTSC)	525p (YUV)	525p (YUV)	625p (YUV)	625p (YUV)	VGA	VGA
	4:30	16:09	4:30	16:09	4:30	16:09	4:30	16:09	4:30	16:09	4:30	16:09	480 (60Hz)	400 (70Hz)
H-POS	ADJ	-	-	-	-	-	-	-	ADJ	-	COPY D02	-	ADJ	-
	D00	-	-	-	-	-	-	-	D02	-	D01	-	D03	-
V-POS	ADJ	-	-	-	-	-	-	-	-	-	COPY D19	-	ADJ	-
	D00	-	-	-	-	-	-	-	D02	-	D01	-	D03	-
H-AMP	ADJ	ADJ	COPY D27	COPY D2B	COPY D27	COPY D2B	COPY D27	COPY D2B	ADJ	-	COPY D30	-	ADJ	-
	D27	D2B	D28	D2C	D29	D2D	D2A	D2E	D30	-	D2F	-	D31	-
V-AMP	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	-	COPY D47	-	ADJ	-
	D27	D42	D3F	D43	D40	D44	D41	D45	D47	-	D46	-	D48	-
V-BLK	ADJ	ADJ	COPY D55	COPY D59	COPY D55	COPY D59	COPY D55	COPY D59	COPYD55	-	COPY D55	-	ADJ	-
	D55	D59	D56	D5A	D57	D5B	D58	D5C	D5E	-	D5D	-	D5F	-
PARABOLA	ADJ	ADJ	COPY D6C	COPY D70	COPY D6C	COPY D70	COPY D6C	COPY D70	COPY D6C	-	COPY D6C	-	ADJ	-
	D6C	D70	D6D	D71	D6E	D72	D6F	D73	D75	-	D74	-	D76	-
TRAPEZOID	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	-	COPY D8C	-	ADJ	-
	D83	D87	D84	D88	D85	D89	D86	D8A	D8C	-	D8B	-	D8D	-
V-LINEAR	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	-	COPY DA3	-	ADJ	-
	D9A	D9E	D9B	D9F	D9C	DA0	D9D	DA1	DA3	-	DA2	-	DA4	-
TOP-CORNER	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	-	COPY DBA	-	ADJ	-
	DB1	DB5	DB2	DB6	DB3	DB7	DB4	DB8	DBA	-	DB9	-	DD2	-
BOTTOM-CORNER	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	ADJ	-	COPY DD1	-	ADJ	-
	DC8	DCC	DC9	DCD	DCA	DCE	DCB	DCF	DD1	-		-		-
V-S-CORRECT	FIX (2B)	FIX (1D)	FIX (26)	FIX (1D)	FIX (27)	FIX (1D)	FIX (28)	FIX (1D)	FIX (27)	-	FIX (2B)	-	FIX (21)	-
	DDF	DE3	DE0	DE4	DE1	DE5	DE2	DE6	DE8	-	DE7	-	DE9	-

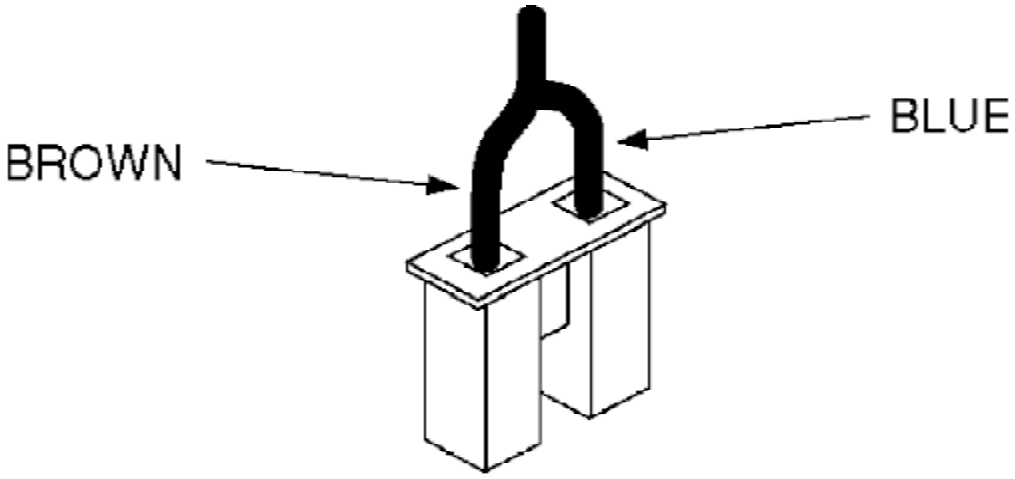
7. LOCATION OF LEAD WIRING


DEG.COIL
TO WOOFER BOX
ADD CORE CLAMPER FOR NZ ONLY
TO DY
TO DF31
TO SP.(R)
TO TW (R)
TO SP.(L)
TO TW(L)
DEG COIL
RT1
RT2
AC CORD
K20
K17
K27
K23
K24
K10
K2
K4
K12
K13
K9
A13
A20
A12
A15
A9
A4
TO CLAMP A
A27
A7
TO DY
TO CLAMP B
A93
A92
TO DEG .COIL
TO CLAMP B
TMM4G407
P90
DEG.COIL
FROM CLAMP B
P92
A1
A10
DY2
CORE CLAMPER
DY1
TO CLAMP B
DF32
DF31
FROM CLAMP B
Q703
X32
X3
D5
TO CRT EARTH LEAD
A31
CORE CLAMPER
H16
GM2
GM1
TO CY
C901
L11A
L11
L11B
L3
L1
L2
H15~K17
AC CORD
L2 Wire strictly cannot touch with CS01

LEAD \ CLAMPER	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	Ⓗ	Ⓘ	Ⓙ	Ⓚ	Ⓛ	Ⓜ	Ⓝ	Ⓞ	Ⓟ
SCREEN WIRE											●					
FOCUS / SCREEN											●	●				
AC CORD					●	●	●		●							
K9 ~ A9					●											
K24 - SP - L				●												
- TW. - L				●												
K23 - SP - R									●							
- TW. - R					●				●							
K13 ~ A13					●											
K12 ~ A12					●											
RT1									●							
RT2						●			●							
K27 ~ A27																
K20 ~ A20																
K17 ~ H16								●								
A15 ~ WOOFER			●	●	●											
DEG COIL		●	●													
K4 ~ A4																
A7 ~ GM1						●	●						●			
DY2																
A31 ~ DF31		●														
DY1		●								●						
GM2																
L3 ~ X3												●			◆	
A1 ~ L1																
L2 ~ CY												●				
K2 ~ A2					●	●	●		●							
A5 ~ DF5														●		
X32 ~ DF32														●		
A90 ~ P90	●															
A92 ~ P92		●														
L11A ~ X - BOARD (Q703)												●			●	

Note: / ● - SINGLE CLAMP / ◆ - DOUBLE CLAMP / / Caution Points:

1. **All leads must not touch the high temperature parts which are specified in safety specification (heat sink / FBT / power circuit / etc.)**
2. **DY lead must be kept distant minimum 10 mm from FBT.**
3. **Anode lead must be kept distant minimum 10 mm from other parts.**
4. **Dress AC cord to rear AV bracket properly.**
5. **Screen wire must be under L11 wire.**
6. **Screen and Focus wire strictly cannot touch CRT neck. and keep distance from anode lead.**
7. **Woofer lead (A15) must not touch D804, D805 (hot part).**
8. **Screen Wire (Orange Colour) must be under L1.**
9. **DF32 and DF5 can’t touch R5525 (hot part)**
10. **H16 Wire (Signal) can’t near to AC cord for interferance reason.**



8. CONDUCTOR VIEWS

8.1. A-Board

9. SCHEMATIC DIAGRAMS

9.1. SCHEMATIC DIAGRAM NOTES

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Notes :

1. Resistor

   All resistors are carbon 1/4W resistors unless marked as follows :

   Unit of resistance is OHM (Ω) (K = 1 000 M = 1 000 000)

○	Nonflammable	⊠	Metal Oxide
△	Solid	◎	Metal Film
⊠	Wire Wound	⊗	Fuse

2. Capacitor

   All capacitors are ceramic 50V capacitors unless marked as follows :

   Unit of capacitance is µF unless otherwise noted.

⊗	Temperature Compensation	+-	Electrolytic
Ⓜ	Polyester	NP	Bipolar
ⓜ	Metalized Polyester	Ⓣ	Dipped Tantalum
⊠	Polypropylene	Ⓩ	Z-Type

3. Coil

   Unit of inductance is µH, unless otherwise noted.

4. Test Point

   ⏚ : Test Point position

5. Earth Symbol

   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)

6. Voltage Measurement
   Voltage is measured using DC voltmeter.
   Conditions of the measurement are the following :
   Power Source..... AC SINGLE 220V, 50Hz
   Receiving Signal.....Colour Bar signal (RF)
   All customer's controls.....Maximum positions

7. Number in red circle indicates waveform number.
   (See waveform pattern table.)

8. When arrow mark (↗) is found, connection is easily found from the direction of arrow.

9. ⇢ : Indicates the major signal flow.

10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks :

The Power Circuit contains a circuit area which uses a seperate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram.
Take the following precautions :
All circuits, except the Power Circuit are cold.
Precautions :

a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
b. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
c. Do not connect an instrument such as an oscilloscope to the hot and cold circuits simultaneously or a fuse may be blown.
   Connect the earth of instruments to the earth connection of the circuit being measured.
d. Make sure to disconnect the power plug before removing the chassis.

9.2. A BOARD

9.2.1. A BOARD (1/3)

9.2.2. A BOARD (2/3)

9.2.3. A BOARD (3/3)

9.3. DF BOARD

9.3.1. DF BOARD (1/2)

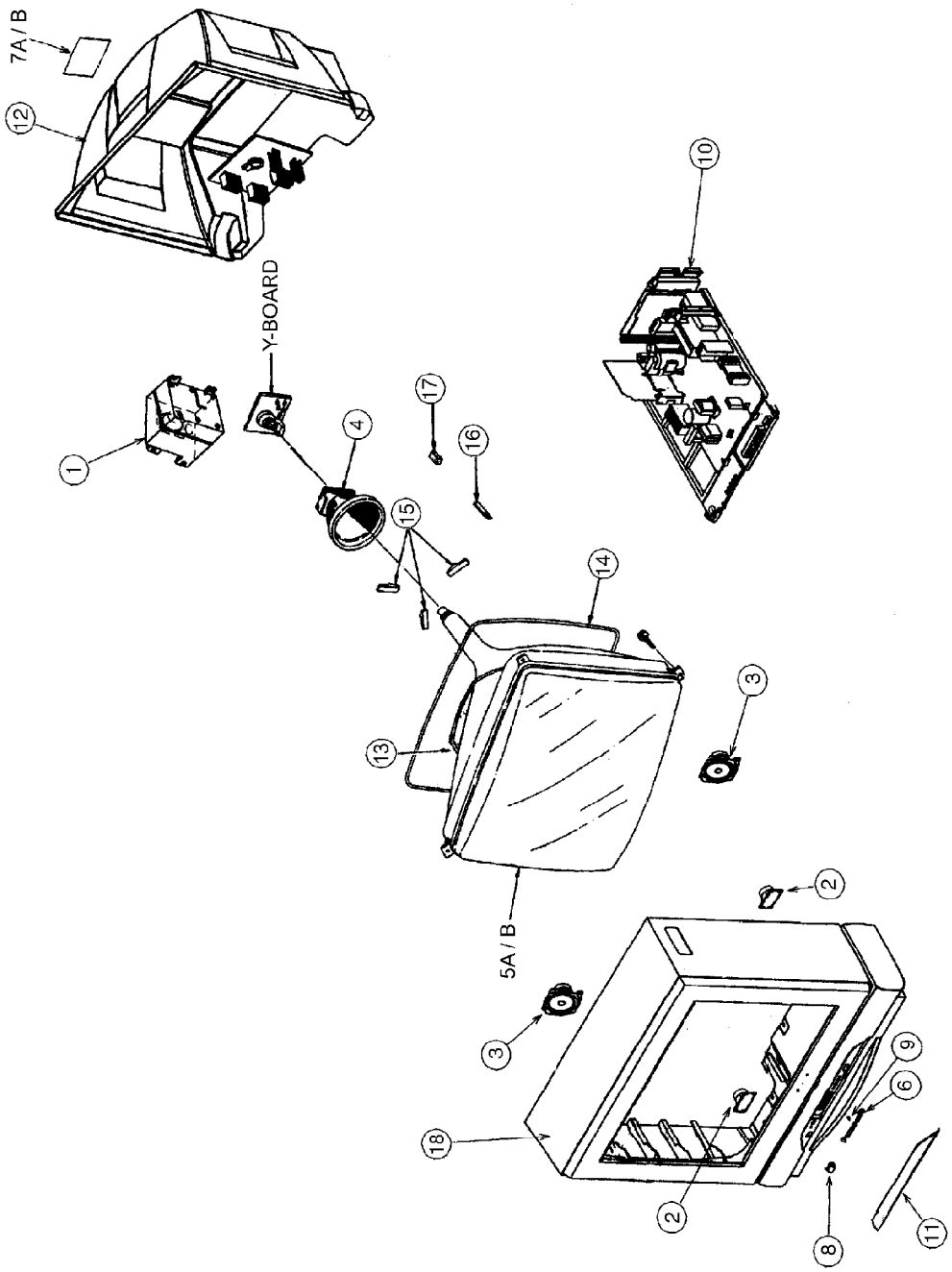
9.3.2. DF BOARD (2/2)

9.4. DG BOARD

9.4.1. DG BOARD (1/3)

9.4.2. DG BOARD (2/3)

9.4.3. DG BOARD (3/3)



11. REPLACEMENT PARTS LIST

11.1. Replacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use manufacturer's specified parts.

Note: Printed circuit board assembly with "NLA" is no longer available after production discontinuation of the complete set.

Abbreviation of part name and description

1. Resistor

Example :
ERD25TJ104 **C** 100KΩ, **J**, 1/4W
Type Allowance

Type	Allowance
C : Carbon	F : ± 1%
F : Fuse	G : ± 2%
M : Metal Oxide Metal Film	J : ± 5% K : ± 10%
S : Solid	M : ± 20%
W : Wire Wound	

2. Capacitor

Example :
ECKF1H103ZF **C** 0.01µF, **Z**, 50V
Type Allowance

Type	Allowance
C : Carbon	C : ± 0.25pF
E : Electrolytic	D : ± 0.5pF
P : Polyester Polypropylene	F : ± 1pF G : ± 3%
T : Tantalum	J : ± 5%
	K : ± 10%
	L : ± 15%
	M : ± 20%
	P : ± 100%, -0%
	Z : ± 80%, -20%

11.2. REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
1	EABG10P504A2	WOOFER BOX	
2	EASG7D505A2	TWEETER	
3	EASG8P528A2	SPEAKER	
	EUR511046	REMOTE CONTROL (S'PORE ONLY)	
	EUR511048	REMOTE CONTROL (M'EAST ONLY)	
4	KDY43HC51F	DEFLECTION YOKE	⚠
	KRCBC160928B	CORE CLAMPER	
5A	M80LSW196X	PICTURE TUBE (S'PORE ONLY)	⚠
5B	M80LSW195XV	PICTURE TUBE (M'EAST ONLY)	⚠
6	TBMA059	PANASONIC BADGE	
7A	TBM4G0834	MODEL NAME PLATE (S'PORE ONLY)	⚠
7B	TBM4G0872	MODEL NAME PLATE (M'EAST ONLY)	⚠
8	TBX4G86800	POWER BUTTON	
9	TEK6940	DOOR SWITCH	
	TES4G406	COIL SPRING	
	THT4G1011R	CRT SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
	TJB1726400	75OHM ADAPTOR	
10	TKP4G12620	REAR AV BRACKET	
11	TKP4G12631	DOOR	
12	TKU4G8504	BACK COVER	
13	TLK4G9041S	ROTATION COIL	
14	TLK4G9062S	DEGAUSSING COIL	⚠
15	TMM4G503	RUBBER WEDGE	⚠
NLA	TNP4G118AV	GM BOARD	⚠
NLA	TNP4G189AH	DG BOARD (S'PORE ONLY)	⚠
NLA	TNP4G189AL	DG BOARD (M'EAST ONLY)	⚠
NLA	TNP4G203AA	DG2 BOARD	⚠
NLA	TNP4G210AA	A BOARD	⚠
NLA	TNP4G211AA	H BOARD (S'PORE ONLY)	⚠
NLA	TNP4G211AC	H BOARD (M'EAST ONLY)	⚠
NLA	TNP4G212AA	K BOARD	⚠
NLA	TNP4G213AA	X BOARD	⚠
NLA	TNP4G214AA	DF BOARD	⚠
NLA	TNP4G217AA	L BOARD	⚠
NLA	TNP4G235AA	P BOARD	⚠
	TPE4G14033	SET COVER (S'PORE ONLY)	
	TPE4G14046	SET COVER (M'EAST ONLY)	
	TPE4G14034	TOP COVER (S'PORE ONLY)	
	TQB4G3163	FAN BAG (S'PORE ONLY)	
	TQB4G3170	FAN BAG (M'EAST ONLY)	
16	TSM10032-3	MAGNET	
17	TSN63115-4	PURITY MAGNET	
	TSX4G174H	AC POWER CORD (S'PORE ONLY)	⚠
	TSX4G139H	AC POWER CORD (M'EAST ONLY)	
18	TXFKY01WB2S	CABINET ASSY	
R456	ERG3FJ331H	M 330OHM,J, 3W	
R457	ERJ3EKF7151	M7.15KOHM,F,1/16W	
R458	ERJ3EKF3481	M3.48KOHM,F,1/16W	
R459	ERJ3EKF9531	M9.53KOHM,F,1/16W	
R460	ERJ3EKF3011	M3.01KOHM,F,1/16W	
R461	ERDS1FJ1R0	C 1OHM,J, 1/2W	
R462	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R465	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R467	ERJ3GEYJ471	M 470OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R468	ERJ3GEYJ224	M 220KOHM,J,1/16W	
R469	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R470	ERJ3GEY0R00	M 0OHM,J,1/16W	
R471	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R472	ERJ3GEYJ683	M 68KOHM,J,1/16W	
R502	ERDS1TJ100	C 10OHM,J, 1/2W	
R503	ER0S2CKF1152	M11.5KOHM,F, 1/4W	
R504	ER0S2CHF8661	M8.66KOHM,F, 1/4W	
R506	ERDS1FJ1R0	C 1OHM,J, 1/2W	
R507	ERDS1FJ1R0	C 1OHM,J, 1/2W	
R508	ERQ2CJP1R8S	F 1.8OHM,J, 2W	
R510	ERDS1TJ333	C 33KOHM,J, 1/2W	
R511	ERDS2TJ821	C 820OHM,J, 1/4W	
R512	ERDS2TJ562	C 5.6KOHM,J, 1/4W	
R513	ERDS2TJ123	C 12KOHM,J, 1/4W	
R514	ERDS2TJ333	C 33KOHM,J, 1/4W	
R515	ERF7ZK2R2	W 2.2OHM, 7W	
R518	ERJ3GEYJ153	M 15KOHM,J,1/16W	
R519	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R520	ERDS2TJ153	C 15KOHM,J, 1/4W	
R521	ERDS2TJ153	C 15KOHM,J, 1/4W	
R522	ERDS2TJ682	C 6.8KOHM,J, 1/4W	
R523	ERDS2TJ471	C 470OHM,J, 1/4W	
R524	ERDS2TJ182	C 1.8KOHM,J, 1/4W	
R525	ERDS2TJ104	C 100KOHM,J, 1/4W	
R526	ERJ3EKF2202	M 22KOHM,F,1/16W	
R527	ERJ3GEY0R00	M 0OHM,J,1/16W	
R528	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R529	ERJ3GEYJ223	M 22KOHM,J,1/16W	
R530	ERG3FJ222H	M 2.2KOHM,J, 3W	
R531	ERDS2TJ222	C 2.2KOHM,J, 1/4W	
R532	ERDS2TJ222	C 2.2KOHM,J, 1/4W	
R533	ERDS2TJ153	C 15KOHM,J, 1/4W	
R534	ERDS2TJ272	C 2.7KOHM,J, 1/4W	
R535	D0AE912JA046	C 9.1KOHM,J, 1/4W	
R536	ERDS2TJ274	C 270KOHM,J, 1/4W	
R537	ER0S2CKF1002	M 10KOHM,F, 1/4W	
R538	ERDS2TJ222	C 2.2KOHM,J, 1/4W	
R539	ERDS2TJ104	C 100KOHM,J, 1/4W	
R540	ERDS2TJ223	C 22KOHM,J, 1/4W	
R541	ERDS2TJ101	C 100OHM,J, 1/4W	
R542	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R543	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R544	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R545	ERDS2TJ104	C 100KOHM,J, 1/4W	
R546	ERDS2TJ271	C 270OHM,J, 1/4W	
R547	ERX3FJ1R0H	M 1OHM,J, 3W	
R549	ERG1FJS561D	M 560OHM,J, 1W	
R551	ERF2AKR18	W 0.18OHM,K, 2W	
R555	ER050CKF2802	M 28KOHM,F, 1/2W	
R556	ER0S2CHF2492	M24.9KOHM,F, 1/4W	
R557	ER0S2CHF3742	M37.4KOHM,F, 1/4W	
R558	ER0S2CHF1502	M 15KOHM,F, 1/4W	
R559	ER0S2CHF3902	M 39KOHM,F, 1/4W	

Ref. No.	Part No.	Part Name & Description	Remarks
R955	ERJ3GEYJ271	M 270OHM,J,1/16W	
R956	ERDS1FJ561	C 560OHM,J, 1/2W	
R957	ERDS1TJ330	C 33OHM,J, 1/2W	
R958	ERDS1TJ330	C 33OHM,J, 1/2W	
R960	ERQ14AJ100E	F 10OHM,J, 1/4W	
R962	ERQ14AJ120E	F 12OHM,J, 1/4W	
R963	ERQ14AJ120E	F 12OHM,J, 1/4W	
R964	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	
R965	ERJ3GEYJ243	M 24KOHM,J,1/16W	
R966	ERG3FJ151H	M 150OHM,J, 3W	
R967	ERJ3GEYJ243	M 24KOHM,J,1/16W	
R968	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	
R969	ERDS1FJ390	C 39OHM,J, 1/2W	
R970	ERJ3GEYJ2R7	M 2.7OHM,J,1/16W	
R971	ERJ3GEYJ2R7	M 2.7OHM,J,1/16W	
R972	ERDS1FJ390	C 39OHM,J, 1/2W	
R973	ERDS1FJ121	C 120OHM,J, 1/2W	
R1001	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1002	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1003	ERJ3GEYJ470	M 47OHM,J,1/16W	
R1004	ERDS2TJ122	C 1.2KOHM,J, 1/4W	
R1005	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1006	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1020	ERJ3EKF2321	M2.32KOHM,F,1/16W	
R1021	ERJ3EKF2152	M21.5KOHM,F,1/16W	
R1022	ERJ3EKF9091	M9.09KOHM,F,1/16W	
R1023	ERJ3EKF5111	M5.11KOHM,F,1/16W	
R1024	ERJ3EKF3241	M3.24KOHM,F,1/16W	
R1025	ERJ3EKF2211	M2.21KOHM,F,1/16W	
R1061	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1063	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1101	EXB38V680J	RESISTOR ARRAY	
R1106	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1107	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1108	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1109	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1110	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1111	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1112	ERJ3GEYJ331	M 330OHM,J,1/16W	
R1113	ERJ3GEYJ331	M 330OHM,J,1/16W	
R1114	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1115	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1116	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1117	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1118	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1119	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1120	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1121	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1122	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1123	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1124	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1125	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1126	ERJ3GEYJ391	M 390OHM,J,1/16W	
R1127	ERJ3GEYJ471	M 470OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1128	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1129	ERJ3GEYJ223	M 22KOHM,J,1/16W	
R1130	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1131	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1132	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1133	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1134	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1135	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1136	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1230	ERJ3GEYJ683	M 68KOHM,J,1/16W	
R1231	ERJ3GEYJ223	M 22KOHM,J,1/16W	
R1232	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1233	ERJ3GEYJ121	M 120OHM,J,1/16W	
R1234	ERJ3GEYJ681	M 680OHM,J,1/16W	
R1235	ERJ3GEYJ390	M 39OHM,J,1/16W	
R1253	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1254	ERJ3EKF1581	M1.58KOHM,F,1/16W	
R1255	ERJ3EKF75R0	M 75OHM,F,1/16W	
R1256	ERG1SJ220E	M 22OHM,J, 1W	
R1261	ERJ3EKF1623	M 162KOHM,F,1/16W	
R1262	ERJ3EKF1003	M 100KOHM,F,1/16W	
R1263	ERJ6GEYJ1R0	M 1OHM,J,1/10W	
R1264	ERJ3EKF1242	M12.4KOHM,F,1/16W	
R1268	ERJ3EKF4020	M 402OHM,F,1/16W	
R1269	ERJ3EKF1242	M12.4KOHM,F,1/16W	
R1270	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1271	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1279	ERJ3EKF1002	M 10KOHM,F,1/16W	
R1301	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1302	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1304	ERJ3GEYJ181	M 180OHM,J,1/16W	
R1305	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1306	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1308	ERJ3GEYJ181	M 180OHM,J,1/16W	
R1309	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1310	ERJ3GEYJ221	M 220OHM,J,1/16W	
R1312	ERJ3GEYJ181	M 180OHM,J,1/16W	
R1319	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1320	ERJ3GEYJ121	M 120OHM,J,1/16W	
R1321	ERJ3GEYJ121	M 120OHM,J,1/16W	
R1322	ERJ3EKF1800	M 180OHM,F,1/16W	
R1323	ERJ3EKF1800	M 180OHM,F,1/16W	
R1324	ERJ3EKF1800	M 180OHM,F,1/16W	
R1325	ERJ3EKF1800	M 180OHM,F,1/16W	
R1326	ERJ3EKF1800	M 180OHM,F,1/16W	
R1327	ERJ3EKF1800	M 180OHM,F,1/16W	
R1328	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1329	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1330	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1331	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1332	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1333	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1334	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	
R1335	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1336	ERJ3EKF2201	M 2.2KOHM,F,1/16W	
R1337	ERJ3GEYJ121	M 120OHM,J,1/16W	
R1338	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1339	ERJ3EKF2201	M 2.2KOHM,F,1/16W	
R1340	ERJ3GEYJ121	M 120OHM,J,1/16W	
R1341	ERJ3GEYJ911	M 910OHM,J,1/16W	
R1342	ERJ3EKF2201	M 2.2KOHM,F,1/16W	
R1343	ERJ3EKF1200	M 120OHM,F,1/16W	
R1345	ERJ3GEYJ220	M 22OHM,J,1/16W	
R1346	ERJ3GEYJ220	M 22OHM,J,1/16W	
R1347	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1348	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1360	ERJ3GEYJ162	M 1.6KOHM,J,1/16W	
R1361	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1362	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1364	ERJ3GEYJ221	M 220OHM,J,1/16W	
R1365	ERJ3GEYJ471	M 470OHM,J,1/16W	
R1366	ERJ3GEYJ471	M 470OHM,J,1/16W	
R1463	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R1464	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R1465	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R1466	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R1467	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R1468	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1469	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R1473	ERJ3EKF75R0	M 75OHM,F,1/16W	
R1474	ERJ3EKF75R0	M 75OHM,F,1/16W	
R1475	ERJ3EKF75R0	M 75OHM,F,1/16W	
R1479	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1487	ERJ3GEYJ471	M 470OHM,J,1/16W	
R1490	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1494	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1495	ERJ3GEYJ331	M 330OHM,J,1/16W	
R1496	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1497	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1498	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R1501	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R1502	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R1503	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R1504	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R1505	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1506	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1507	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1508	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1509	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1510	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1511	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1570	ERJ3EKF8202	M 82KOHM,F,1/16W	
R1571	ERJ3EKF1302	M 13KOHM,F,1/16W	
R1580	ERJ3GEYJ151	M 150OHM,J,1/16W	
R1581	ERJ3GEYJ151	M 150OHM,J,1/16W	
R1582	ERJ3GEYJ151	M 150OHM,J,1/16W	
R1583	ERJ3EKF4700	M 470OHM,F,1/16W	
R1584	ERJ3EKF4700	M 470OHM,F,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1585	ERJ3EKF4700	M 470OHM,F,1/16W	
R1586	ERJ3EKF1800	M 180OHM,F,1/16W	
R1587	ERJ3EKF1800	M 180OHM,F,1/16W	
R1588	ERJ3EKF1800	M 180OHM,F,1/16W	
R1590	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1591	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1592	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1593	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1594	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1601	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1602	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1603	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1604	ERJ3GEYJ151	M 150OHM,J,1/16W	
R1605	ERJ3GEYJ151	M 150OHM,J,1/16W	
R1606	ERJ3GEYJ151	M 150OHM,J,1/16W	
R1607	ERJ3GEYJ221	M 220OHM,J,1/16W	
R1608	ERJ3GEYJ221	M 220OHM,J,1/16W	
R1609	ERJ3GEYJ221	M 220OHM,J,1/16W	
R1620	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1624	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1628	ERJ3GEY0R00	M 0OHM,J,1/16W	
R2101	ERJ3GEY0R00	M 0OHM,J,1/16W	
R2102	ERJ3GEY0R00	M 0OHM,J,1/16W	
R2104	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R2105	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R2110	ERJ3GEYJ101	M 100OHM,J,1/16W	
R2111	ERJ3GEYJ101	M 100OHM,J,1/16W	
R3033	ERJ3GEYJ223	M 22KOHM,J,1/16W	
R3034	ERJ3GEYJ680	M 68OHM,J,1/16W	
R3035	ERJ3GEYJ181	M 180OHM,J,1/16W	
R3036	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R3037	ERJ3GEYJ101	M 100OHM,J,1/16W	
R3038	ERJ3GEYJ101	M 100OHM,J,1/16W	
R3039	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R3040	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R3041	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R3042	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R3043	ERJ3GEYJ223	M 22KOHM,J,1/16W	
R3044	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3045	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3046	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3055	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3056	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3057	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3058	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3059	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3060	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3064	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3065	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3066	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3067	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3068	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3069	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3070	ERJ3GEYJ331	M 330OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3075	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3076	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3080	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3081	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3082	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3083	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3084	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3085	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3086	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3087	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3088	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3089	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3090	ERJ3GEYJ221	M 220OHM,J,1/16W	
R3150	ERJ3GEYJ220	M 22OHM,J,1/16W	
R3151	ERJ3GEYJ220	M 22OHM,J,1/16W	
R3152	ERJ3GEYJ220	M 22OHM,J,1/16W	
R3153	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3154	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3155	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3156	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R3157	ERJ3GEYJ101	M 100OHM,J,1/16W	
R3158	ERJ3GEYJ101	M 100OHM,J,1/16W	
R3159	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R3160	ERDS2TJ681	C 680OHM,J, 1/4W	
R3161	ERDS2TJ151	C 150OHM,J, 1/4W	
R3162	ERJ3GEYJ101	M 100OHM,J,1/16W	
R3163	ERJ3GEYJ101	M 100OHM,J,1/16W	
R3174	ERDS2TJ102	C 1KOHM,J, 1/4W	
R3301	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3302	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3303	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3304	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3305	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R3306	ERJ3GEYJ221	M 220OHM,J,1/16W	
R3307	ERJ3GEYJ221	M 220OHM,J,1/16W	
R3311	ERJ3GEY0R00	M 0OHM,J,1/16W	
R5512	ERC14GK224	S 220KOHM,K, 1/4W	
R5513	ERC14GK184	S 180KOHM,K, 1/4W	
R5514	ERC14GK334	S 330KOHM,K, 1/4W	
R5515	ERDS2TJ473	C 47KOHM,J, 1/4W	
R5520	ERC12GK104	S 100KOHM,K, 1/2W	
R5521	ERC14GK225	S 2.2MOHM,K, 1/4W	
R5522	ERDS2TJ153	C 15KOHM,J, 1/4W	
R5525	ERG5FJ821	M 820OHM,J, 5W	
R5526	ERG5FJ821	M 820OHM,J, 5W	
R5527	ERG1FJS332D	M 3.3KOHM,J, 1W	
R5531	ERDS2TJ471	C 470OHM,J, 1/4W	
R5532	ERDS2TJ101	C 100OHM,J, 1/4W	
R5534	ERDS2TJ153	C 15KOHM,J, 1/4W	
	CAPACITORS		
C101	ECA1HM100B	E 10UF, 50V	
C102	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C103	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C104	ECA1HM101B	E 100UF, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C105	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C110	ECJ1VC1H100C	C 10PF, C, 50V	
C111	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C115	ECA1CM221B	E 220UF, 16V	
C121	ECJ1VC1H100C	C 10PF, C, 50V	
C352	ECJ1VB1H103K	C 0.01UF, K, 50V	
C354	ECJ1VB1E223K	C 0.022UF, K, 25V	
C355	ECQE2104KF	P 0.1UF, K,250V	
C356	ECJ1VC1H030D	C 3PF, D, 50V	
C357	ECKR2H561KB5	C 560PF, K,500V	
C359	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C360	ECA1CM470B	E 47UF, 16V	
C361	ECJ1VB1H103K	C 0.01UF, K, 50V	
C363	ECJ1VB1E223K	C 0.022UF, K, 25V	
C364	ECJ1VC1H090D	C 9PF, D, 50V	
C365	ECQE2104KF	P 0.1UF, K,250V	
C366	ECKR2H561KB5	C 560PF, K,500V	
C371	ECJ1VB1H103K	C 0.01UF, K, 50V	
C373	ECJ1VB1H103K	C 0.01UF, K, 50V	
C374	ECJ1VC1H100D	C 10PF, D, 50V	
C375	ECQE2104KF	P 0.1UF, K,250V	
C376	ECKR2H561KB5	C 560PF, K,500V	
C377	ECA2EM100B	E 10UF, 250V	
C380	ECA1HM101B	E 100UF, 50V	
C383	ECA1CM222B	E 2200UF, 16V	
C388	ECJ1VB1E183K	C 0.018UF, K, 25V	
C390	ECA1HM100B	E 10UF, 50V	
C391	ECKW3D332KBP	C 3300PF, K, 2KV	
C401	ECA1HM470B	E 47UF, 50V	
C403	ECJ1VB1H272K	C 2700PF, K, 50V	
C451	ECA1VM470B	E 47UF, 35V	
C452	ECA1HM471B	E 470UF, 50V	
C455	ECEA1CN220U	E 22UF, 16V	
C457	ECA1VHG102	E 1000UF, 35V	
C458	ECQB1104KF	P 0.1UF, K,100V	
C459	ECA1HM220B	E 22UF, 50V	
C460	ECQB1224KF	P 0.22UF, K,100V	
C462	ECQV1H104JL	P 0.1UF, J, 50V	
C502	ECA2EM330B	E 33UF, 250V	
C504	ECA1HM100B	E 10UF, 50V	
C505	ECA160V33UE	E 33UF, 160V	
C506	ECKR2H471KB5	C 470PF, K,500V	
C507	ECA1EM222E	E 2200UF, 25V	
C508	ECKW3D471KBP	C 470PF, K, 2KV	
C509	ECA1EM222E	E 2200UF, 25V	
C850	ECKW3D182KBP	C 1800PF, K, 2KV	
C851	ECKR2H221KB5	C 220PF, K,500V	
C852	ECKR2H221KB5	C 220PF, K,500V	
C853	ECKR2H221KB5	C 220PF, K,500V	
C854	ECKR2H221KB5	C 220PF, K,500V	
C855	EC0S2CA471BB	E 470UF, 160V	
C856	EEUFC1E222E	E 2200UF, 25V	
C857	ECA1CHG682E	E 6800UF, 16V	
C859	ECA1EM470B	E 47UF, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C862	ECA1CM102B	E 1000UF, 16V	
C863	ECA1CM102B	E 1000UF, 16V	
C864	ECA1EM331B	E 330UF, 25V	
C867	ECJ1VB1H272K	C 2700PF, K, 50V	
C870	ECJ1VB1H102K	C 1000PF, K, 50V	
C882	ECA1CM101B	E 100UF, 16V	
C883	ECA1CM101B	E 100UF, 16V	
C884	ECJ1VF1H473Z	C 0.047UF, Z, 50V	
C885	EEUFC1C471LB	E 470UF, 16V	
C886	ECA1CM101B	E 100UF, 16V	
C892	ECKW3D152KBP	C 1500PF, K, 2KV	
C897	ECQE6823KF	P 0.082UF, K,630V	
C901	EEANA1E100B	E 10UF, 25V	
C902	ECA1CM101B	E 100UF, 16V	
C905	ECA1VM220B	E 22UF, 35V	
C907	ECJ1VC1H151J	C 150PF, J, 50V	
C955	ECQB1103JF	P 0.01UF, J,100V	
C958	ECA2CM100B	E 10UF, 160V	
C959	ECQB1103JF	P 0.01UF, J,100V	
C960	ECJ1VC1H221J	C 220PF, J, 50V	
C961	ECA2CM100B	E 10UF, 160V	
C962	ECQM4472RJZ	P 4700PF, J,400V	
C963	ECJ1VC1H221J	C 220PF, J, 50V	
C964	ECA1CMH101	E 100UF, 16V	
C966	ECA1CM101B	E 100UF, 16V	
C967	ECA1CHG471	E 470UF, 16V	
C974	ECA1VM101B	E 100UF, 35V	
C1001	ECJ1VC1H101J	C 100PF, J, 50V	
C1002	ECJ1VF1H103Z	C 0.01UF, Z, 50V	
C1003	ECA1CM221B	E 220UF, 16V	
C1010	ECJ1VC1H101J	C 100PF, J, 50V	
C1020	ECJ1VF1H103Z	C 0.01UF, Z, 50V	
C1105	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1106	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1120	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1121	ECJ1VC1H151J	C 150PF, J, 50V	
C1122	EEVHB1C100R	E 10UF, 16V	
C1123	ECJ2VF1C105Z	C 1UF, Z, 16V	
C1130	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1138	ECJ1VB0J105K	C 1UF, K,6.3V	
C1139	EEVHB0G221P	E 220UF, 4V	
C1140	ECJ1VC1H471J	C 470PF, J, 50V	
C1141	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1142	EEVHB1E4R7R	E 4.7UF, 25V	
C1143	EEVHB1E4R7R	E 4.7UF, 25V	
C1151	ECJ1VC1H330J	C 33PF, J, 50V	
C1152	ECJ1VC1H330J	C 33PF, J, 50V	
C1153	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1160	ECJ1VC1H221J	C 220PF, J, 50V	
C1161	ECJ1VC1H221J	C 220PF, J, 50V	
C1162	ECJ1VC1H221J	C 220PF, J, 50V	
C1167	ECJ1VC1H561J	C 560PF, J, 50V	
C1170	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1171	ECJ1VB1C104K	C 0.1UF, K, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1337	ECJ1VC1H121J	C 120PF, J, 50V	
C1338	EEVHP1E220P	E 22UF, 25V	
C1339	ECJ1VC1H101J	C 100PF, J, 50V	
C1340	ECJ1VC1H121J	C 120PF, J, 50V	
C1341	ECJ1VC1H100D	C 10PF, D, 50V	
C1342	ECJ1VC1H220J	C 22PF, J, 50V	
C1343	ECJ1VC1H680J	C 68PF, J, 50V	
C1344	EEVHB1C470P	E 47UF, 16V	
C1345	ECJ2VF1C105Z	C 1UF, Z, 16V	
C1346	ECJ1VB0J105K	C 1UF, K,6.3V	
C1347	ECJ1VB0J105K	C 1UF, K,6.3V	
C1348	ECJ1VB0J105K	C 1UF, K,6.3V	
C1349	ECJ1VB0J105K	C 1UF, K,6.3V	
C1350	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1351	ECJ1VB0J105K	C 1UF, K,6.3V	
C1353	EEVHB1C100R	E 10UF, 16V	
C1354	EEVHB0G221P	E 220UF, 4V	
C1355	ECJ1VB0J105K	C 1UF, K,6.3V	
C1356	ECJ1VB0J105K	C 1UF, K,6.3V	
C1357	EEVHB0G221P	E 220UF, 4V	
C1358	ECJ1VB0J105K	C 1UF, K,6.3V	
C1359	ECJ1VB0J105K	C 1UF, K,6.3V	
C1360	EEVHB0G221P	E 220UF, 4V	
C1361	ECJ1VB0J105K	C 1UF, K,6.3V	
C1362	ECJ1VB0J105K	C 1UF, K,6.3V	
C1363	ECJ1VB0J105K	C 1UF, K,6.3V	
C1364	EEVHB1C470P	E 47UF, 16V	
C1365	EEVHB1C100R	E 10UF, 16V	
C1366	ECJ1VC1H681J	C 680PF, J, 50V	
C1367	ECJ1VB0J105K	C 1UF, K,6.3V	
C1368	ECJ1VB0J105K	C 1UF, K,6.3V	
C1370	ECJ1VC1H330J	C 33PF, J, 50V	
C1371	ECJ1VC1H680J	C 68PF, J, 50V	
C1372	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1373	EEVHB0J101P	E 100UF, 6.3V	
C1374	ECJ1VB0J105K	C 1UF, K,6.3V	
C1375	ECJ1VB0J105K	C 1UF, K,6.3V	
C1376	ECJ1VB0J105K	C 1UF, K,6.3V	
C1377	ECJ1VC1H221J	C 220PF, J, 50V	
C1378	ECJ1VC1H220J	C 22PF, J, 50V	
C1379	ECJ1VC1H680J	C 68PF, J, 50V	
C1380	ECJ1VC1H220J	C 22PF, J, 50V	
C1381	ECJ1VC1H680J	C 68PF, J, 50V	
C1382	ECJ1VC1H101J	C 100PF, J, 50V	
C1383	ECJ1VC1H101J	C 100PF, J, 50V	
C1384	EEVHB1C100R	E 10UF, 16V	
C1385	EEVHB1C470P	E 47UF, 16V	
C1386	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1387	ECJ1VB0J105K	C 1UF, K,6.3V	
C1388	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1392	ECJ1VB1C223K	C 0.022UF, K, 16V	
C1394	ECJ1VB0J105K	C 1UF, K,6.3V	
C1401	ECJ1VB0J105K	C 1UF, K,6.3V	
C1402	ECJ3YB0J335M	C 3.3UF, M,6.3V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1403	ECJ1VB1H123K	C 0.012UF, K, 50V	
C1404	EEVHB0G221P	E 220UF, 4V	
C1405	ECJ1VB0J105K	C 1UF, K,6.3V	
C1406	ECJ1VB0J105K	C 1UF, K,6.3V	
C1407	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1410	ECJ1VB0J105K	C 1UF, K,6.3V	
C1411	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1412	ECJ1VB0J105K	C 1UF, K,6.3V	
C1414	ECJ1VB0J105K	C 1UF, K,6.3V	
C1503	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1504	EEVHB1C100R	E 10UF, 16V	
C1505	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1506	EEVHB0G221P	E 220UF, 4V	
C1507	EEVHB0G221P	E 220UF, 4V	
C1512	EEVHB1C470P	E 47UF, 16V	
C1513	EEVHB1C100R	E 10UF, 16V	
C1514	EEVHB0G221P	E 220UF, 4V	
C1515	ECJ1VB0J105K	C 1UF, K,6.3V	
C1550	EEVHB1C100R	E 10UF, 16V	
C1570	ECJ2VF1C105Z	C 1UF, Z, 16V	
C1580	ECJ1VB0J105K	C 1UF, K,6.3V	
C1601	ECJ1VB0J105K	C 1UF, K,6.3V	
C1602	ECJ1VB0J105K	C 1UF, K,6.3V	
C1603	ECJ1VB0J105K	C 1UF, K,6.3V	
C1604	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1605	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1606	EEVHB1C470P	E 47UF, 16V	
C1607	ECJ1VB1H103K	C 0.01UF, K, 50V	
C2101	ECA1CM101B	E 100UF, 16V	
C2102	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C2103	ECJ1VC1H101J	C 100PF, J, 50V	
C2110	ECJ1VB1H332K	C 3300PF, K, 50V	
C2111	ECJ1VB1H332K	C 3300PF, K, 50V	
C2112	ECJ1VC1H102J	C 1000PF, J, 50V	
C2113	ECA1HM100B	E 10UF, 50V	
C2114	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C2115	ECA1HM100B	E 10UF, 50V	
C2116	ECA1CM101B	E 100UF, 16V	
C2117	ECJ1VF1H103Z	C 0.01UF, Z, 50V	
C2118	ECJ1VF1H103Z	C 0.01UF, Z, 50V	
C2120	ECA1HM3R3B	E 3.3UF, 50V	
C2121	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C2124	ECA1HM100B	E 10UF, 50V	
C2125	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C2127	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C2128	ECA1CM101B	E 100UF, 16V	
C2129	ECQV1H334JM	P 0.33UF, J, 50V	
C2130	ECQV1H334JM	P 0.33UF, J, 50V	
C2131	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C2133	ECJ1VC1H070D	C 7PF, D, 50V	
C2134	ECJ1VC1H470J	C 47PF, J, 50V	
C2135	ECJ1VC1H560J	C 56PF, J, 50V	
C2136	ECJ1VC1H560J	C 56PF, J, 50V	
C2138	ECJ1VC1H470J	C 47PF, J, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2139	ECJ1VC1H010C	C 1PF, C, 50V	
C2140	ECJ1VC1H010C	C 1PF, C, 50V	
C2301	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C2302	ECJ1VC1H561K	C 560PF, K, 50V	
C2303	ECQV1H684JM	P 0.68UF, J, 50V	
C2304	ECQV1H154JM	P 0.15UF, J, 50V	
C2305	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C2306	ECA1VM221B	E 220UF, 35V	
C2307	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C2308	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C2309	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C2310	ECA1HM221B	E 220UF, 50V	
C2315	ECJ1VB1H472K	C 4700PF, K, 50V	
C2316	ECJ1VC1H101J	C 100PF, J, 50V	
C2320	ECQV1H334JM	P 0.33UF, J, 50V	
C2321	ECJ1VB1H562K	C 5600PF, K, 50V	
C2322	ECA1HM2R2B	E 2.2UF, 50V	
C2330	ECA1CM101B	E 100UF, 16V	
C3081	ECA1HM2R2B	E 2.2UF, 50V	
C3082	ECJ1VB1H682K	C 6800PF, K, 50V	
C3083	ECA1HM2R2B	E 2.2UF, 50V	
C3084	ECJ1VB1H682K	C 6800PF, K, 50V	
C3085	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3086	ECJ1VF1C474Z	C 0.47UF, Z, 16V	
C3087	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C3150	ECJ1VB0J105K	C 1UF, K,6.3V	
C3171	ECJ1VC1H561K	C 560PF, K, 50V	
C3172	ECJ1VC1H561K	C 560PF, K, 50V	
C3173	ECJ1VF1H103Z	C 0.01UF, Z, 50V	
C3301	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3302	ECJ1VF1C474Z	C 0.47UF, Z, 16V	
C3304	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C3308	ECA1CM221B	E 220UF, 16V	
C3311	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3312	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3313	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3314	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C3315	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3316	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3317	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3318	ECA1CM221B	E 220UF, 16V	
C3320	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3321	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3322	ECJ2VF1C105Z	C 1UF, Z, 16V	
C4801	ECA1HM4R7B	E 4.7UF, 50V	
C4803	ECQV1H334JM	P 0.33UF, J, 50V	
C4804	ECQV1H334JM	P 0.33UF, J, 50V	
C4805	ECA1VM470B	E 47UF, 35V	
C4806	ECA1HM4R7B	E 4.7UF, 50V	
C4808	ECA1HM330B	E 33UF, 50V	
C4809	ECQV1H334JM	P 0.33UF, J, 50V	
C4810	ECA1VM470B	E 47UF, 35V	
C4811	ECJ2VB1H103K	C 0.01UF, K, 50V	
C4812	ECA1HM100B	E 10UF, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C4813	ECA1CM101B	E 100UF, 16V	
C4814	ECA1CM101B	E 100UF, 16V	
C4815	ECA1CM101B	E 100UF, 16V	
C4822	ECHU1C103JA5	P 0.01UF, J, 16V	
C4823	ECEA1CN100U	E 10UF, 16V	
C4824	ECEA1CN100U	E 10UF, 16V	
C4825	EEUFC1C560B	E 56UF, 16V	
C4826	ECA1HM4R7B	E 4.7UF, 50V	
C4827	ECA1HM4R7B	E 4.7UF, 50V	
C4828	ECQV1H334JM	P 0.33UF, J, 50V	
C5501	ECKR3A151KBP	C 150PF, K, 1KV	
C5502	ECKW3A272KBP	C 2700PF, K, 1KV	
C5503	ECKR3A681KBP	C 680PF, K, 1KV	
C5505	ECA1HM100B	E 10UF, 50V	
C5510	ECQM4223JZ	P 0.022UF, J,400V	
C5511	ECQM6223JZ	P 0.022UF, J,600V	
C5512	ECKR3D101KBP	C 100PF, K, 2KV	
C5515	ECA1HM010B	E 1UF, 50V	
C5516	ECKR3D471KBP	C 470PF, K, 2KV	
C5517	ECKR3D102KBP	C 1000PF, K, 2KV	
C5518	ECKR3A122KBP	C 1200PF, K, 1KV	
C5531	ECQB1H222JF	P 2200PF, J, 50V	
C5533	ECQB1H104JF	P 0.1UF, 50V	
C5534	ECQB1H104JF	P 0.1UF, 50V	
	COILS		
L5	K1ZZ00001205	CONNECTOR	
L102	EXCELDR35V	CORE	
L1257	TALL08T330KA	INDUCTION COIL	
L1258	G0A221GA0013	COIL	
L1261	ERDS2TC0	C 0OHM, 1/4W	
L1315	TALC325T4R7M	CHIP INDUCTOR COIL	
L1334	TALC325T4R7M	CHIP INDUCTOR COIL	
L1335	G1C2R2K00006	COIL	
L1336	G1C2R2K00006	COIL	
L1337	G1C2R2K00006	COIL	
L1338	G1C1R5K00004	COIL	
L1350	TALC325T4R7M	CHIP INDUCTOR COIL	
L1352	TALC325T4R7M	CHIP INDUCTOR COIL	
L1360	TALC325T4R7M	CHIP INDUCTOR COIL	
L1361	TALC325T4R7M	CHIP INDUCTOR COIL	
L1375	TALC325T4R7M	CHIP INDUCTOR COIL	
L1378	G1C1R5K00004	COIL	
L1379	G1C1R5K00004	COIL	
L1384	TALC325T4R7M	CHIP INDUCTOR COIL	
L1385	TALC325T4R7M	CHIP INDUCTOR COIL	
L1390	TALC325T4R7M	CHIP INDUCTOR COIL	
L1401	TALC325T4R7M	CHIP INDUCTOR COIL	
L1402	TALC325T4R7M	CHIP INDUCTOR COIL	
L1403	TALC325T4R7M	CHIP INDUCTOR COIL	
L1430	TALC325T4R7M	CHIP INDUCTOR COIL	
L1440	TALC325T4R7M	CHIP INDUCTOR COIL	
L1450	TALC325T4R7M	CHIP INDUCTOR COIL	
L1460	TALC325T4R7M	CHIP INDUCTOR COIL	
L1491	TALC325T4R7M	CHIP INDUCTOR COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L1492	TALC325T4R7M	CHIP INDUCTOR COIL	
L1495	TALC325T4R7M	CHIP INDUCTOR COIL	
L1501	TALC325T4R7M	CHIP INDUCTOR COIL	
L1580	TALC325T4R7M	CHIP INDUCTOR COIL	
L2101	TLTACT100K	PEAKING COIL 10U	
L2130	EXCELSA35T	BEAD CORE	
L2132	G0C6R8KA0004	PEAKING COIL	
L2133	TLTACT100K	PEAKING COIL 10U	
L2301	TAL10RP390LB	INDUCTION COIL	
L2302	TALL08T270KA	INDUCTION COIL	
L2303	TLTACT100K	PEAKING COIL 10U	
L2304	TLTACT100K	PEAKING COIL 10U	
L2310	EXCELSA35T	BEAD CORE	
L2801	G0BYYYY00016	COIL	
L2820	TLTACT100K	PEAKING COIL 10U	
L2821	TLTACT100K	PEAKING COIL 10U	
L2830	EXCELSA35T	BEAD CORE	
L2831	EXCELSA35T	BEAD CORE	
L3030	TLTACT100J	PEAKING COIL	
L3050	TLTACT100J	PEAKING COIL	
L3151	TLTACT4R7J	PEAKING COIL	
L3301	TLTACT100J	PEAKING COIL	
L3311	TLTACT100J	PEAKING COIL	
L4802	EXCELDR35V	CORE	
L4803	TLTACT100J	PEAKING COIL	
L4804	TALL08T102JA	INDUCTION COIL	
L4810	EXCELDR35V	CORE	
L5501	TALL13N182JB	INDUCTION COIL	
LC1345	J0HAAB000012	EMI FILTER	
LC1346	J0HAAB000012	EMI FILTER	
LC1350	J0HAAB000012	EMI FILTER	
LC1351	J0HAAB000012	EMI FILTER	
LC1352	J0HAAB000012	EMI FILTER	
LC1501	J0HABB000004	EMI FILTER	
LC1502	J0HABB000004	EMI FILTER	
LC1503	J0HABB000004	EMI FILTER	
D402	MA152KTX	DIODE	
D403	MA152KTX	DIODE	
D415	MA152KTX	DIODE	
D452	MA152KTX	DIODE	
D453	EU02AV1	DIODE	
D454	MA152KTX	DIODE	
D455	MAZ30560LL	ZENER DIODE	
D501	AU02	DIODE	
D502	D1NL20UV70	DIODE	
D503	MA4104J	DIODE	
D504	MA165	DIODE	
D505	RU2MLFA1	DIODE	
D506	RU2MLFA1	DIODE	
D507	MA3180MTX	DIODE	
D508	MA3180MTX	DIODE	
D510	MA165	DIODE	
D511	MA165	DIODE	
D520	MA165	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D527	MA152KTX	DIODE	
D530	MA165	DIODE	
D532	MA4360H	DIODE	
D534	MA182	DIODE	
D535	MA182	DIODE	
D545	B0JAME000052	DIODE	
D547	MA4150M	DIODE	
D548	D1NL40V70	DIODE	
D551	EU02	DIODE	
D552	RH3GLF102	DIODE	
D553	FMV-3GULF730	DIODE	
D555	MA167	DIODE	
D566	MTZJ51	ZENER DIODE	
D567	MTZJ51	ZENER DIODE	
D568	MA165	DIODE	
D569	MA4020H	DIODE	
D570	MAZ30560LL	ZENER DIODE	
D571	MAZ30560LL	ZENER DIODE	
D572	MAZ30560LL	ZENER DIODE	
D581	RU3ANLFA1	DIODE	
D701	D1NL40V70	DIODE	
D801	ERZV10D621CS	VARISTOR	⚠
D803	D4SB80	DIODE	
D811	B0BA02100001	ZENER DIODE	
D812	MTZJ36D	ZENER DIODE	
D813	B0BA02100001	ZENER DIODE	
D814	B0EAKT000018	DIODE	
D816	MA2560	DIODE	
D817	AG01Z	DIODE	
D818	MAZ2360	DIODE	
D821	MAZ20820A0LS	DIODE	
D824	AG01Z	DIODE	
D825	MAZ20820A0LS	DIODE	
D826	MAZ20820A0LS	DIODE	
D827	MTZJ20B	ZENER DIODE	
D828	TF361MA	THYRISTOR	
D829	AG01Z	DIODE	
D832	MTZJ4.7	ZENER DIODE	
D833	MTZJ51	ZENER DIODE	
D835	ERZV10D621CS	VARISTOR	
D850	FMGG2CSLF665	DIODE	
D851	FMLG12SLF116	DIODE	
D852	FMLG12SLF116	DIODE	
D853	RU4AMLF-M1	DIODE	
D854	RU4AMLF-M1	DIODE	
IC1202	CXA1315M	LINEAR IC	
IC1210	C0DAAGG00002	IC	
IC1211	C0DBEZD00002	IC	
IC1212	SI-3025KS-TL	IC	
IC1213	PST9119NR	IC (LOGIC)	
IC1214	SI-3025KS-TL	IC	
IC1215	PST9128NR	IC (LOGIC)	
IC1216	AN7805F	LINEAR IC	
IC1301	C1ZBZ0001989	IC	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1302	PQ1X251M2ZP	IC	
IC1303	NJM2904M	LINEAR IC	
IC1305	PQ1X251M2ZP	IC	
IC1354	C0DBZFC00048	IC	
IC1403	AN5876S	IC	
IC1404	NJM2904M	LINEAR IC	
IC1440	C3HBKZ000001	IC	
IC1441	C3HBKZ000001	IC	
IC1470	C0CBCBD00006	IC	
IC1501	TC7MBD3245KL	IC	
IC1502	TVR4GAS125	EEPROM IC	
IC1503	TVR4GAS127	EEPROM IC	
IC1601	AN5876S	IC	
IC2101	MSP3411GAB83	SOUND CONTROL IC	
IC2301	TDA7481	LINEAR IC	
IC2801	TDA2616/N1	IC	
IC3001	MM1492AF	IC	
IC3301	TDA8601T/C1	IC	
IC3302	TDA8601T/C1	IC	
IC4801	PUB4301	TRANSISTOR ARRAY	
IC4802	AN6564NS	LINEAR IC	
IC4803	PUB4301	TRANSISTOR ARRAY	
IC4804	AN6564	LINEAR IC	
IC4805	TC4066BFN	IC	
IC4861	AN6562	LINEAR IC	
IC5501	AN78L05	LINEAR IC	
	TRANSISTORS		
Q112	2SA1037AKT	TRANSISTOR	
Q369	2SA1037AKT	TRANSISTOR	
Q401	B1ABCF000078	TRANSISTOR	
Q415	B1ABCF000078	TRANSISTOR	
Q416	B1ABCF000078	TRANSISTOR	
Q451	B1ABCF000078	TRANSISTOR	
Q510	2SA1018Q	TRANSISTOR	
Q513	2SA1018Q	TRANSISTOR	
Q540	2SK2962	TRANSISTOR	
Q551	2SC5591000LK	TRANSISTOR	⚠
Q555	2SC1473A	TRANSISTOR	
Q565	2SC3311A	TRANSISTOR	
Q575	2SA1037AKT	TRANSISTOR	
Q576	B1ABCF000078	TRANSISTOR	
Q577	B1ABCF000078	TRANSISTOR	
Q703	2SK2538000	TRANSISTOR	
Q810	2SC1473A	TRANSISTOR	⚠
Q851	2SA1037AKT	TRANSISTOR	
Q870	B1ABCF000078	TRANSISTOR	
Q880	B1ABCF000078	TRANSISTOR	
Q891	2SC3311AS	TRANSISTOR	
Q892	2SC1317	TRANSISTOR	
Q902	B1ABCF000078	TRANSISTOR	
Q903	B1ABCF000078	TRANSISTOR	
Q908	B1ABCF000078	TRANSISTOR	
Q952	B1ABCF000078	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q953	B1ABCF000078	TRANSISTOR	
A13	TJS3A9650	4P CONNECTOR	
A15	TJS118590	2P CONNECTOR	
A20	TJS3A9890	9P CONNECTOR	
A24	TJS4G8020	16P CONNECTOR	
A25	TJS4G8020	16P CONNECTOR	
A27	TJS3A9660	CONNECTOR	
A31	TJS3A9660	CONNECTOR	
A50	TJSF29207	CONNECTOR	
A51	K1MM82A00001	CONNECTOR	
A52	TJS118590	2P CONNECTOR	
A90	K1KA05A00164	CONNECTOR	
A92	TJS3A9640	3P CONNECTOR	
DF31	TJS3A9660	CONNECTOR	
DF32	TJS3A9670	6P CONNECTOR	
DG85	TJS4G415	CONNECTOR	
DG86	TJS4G416	CONNECTOR	
DY2	TJS3A9640	3P CONNECTOR	
F840	XBA2C50TR0	FUSE	
GM1	TJS3A9890	9P CONNECTOR	
GM2	TJS3A9660	CONNECTOR	
H11	TJSF17435	35P CONNECTOR	
H12	TJS1A8090	PHONO PIN	
H16	TJS1A8150	CONNECTOR	
H52	TJS118590	2P CONNECTOR	
JA1	ERJ3GEY0R00	M 0OHM,J,1/16W	
JA2	ERJ3GEY0R00	M 0OHM,J,1/16W	
JA3	ERJ3GEY0R00	M 0OHM,J,1/16W	
JA4	ERJ3GEY0R00	M 0OHM,J,1/16W	
JA5	ERJ3GEY0R00	M 0OHM,J,1/16W	
JA6	ERJ3GEY0R00	M 0OHM,J,1/16W	
JA7	ERJ3GEY0R00	M 0OHM,J,1/16W	
JA8	ERJ3GEY0R00	M 0OHM,J,1/16W	
JA9	ERJ3GEY0R00	M 0OHM,J,1/16W	
JA10	ERJ3GEY0R00	M 0OHM,J,1/16W	
JK2	TJB4G659	FRONT AV TERMINAL	
JK351	K3B12GA00001	CRT SOCKET	⚠
JK3001	TJB4G658	REAR AV TERMINAL	
JK3150	TJSF22915	15P CONNECTOR	
JS105	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS106	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS108	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS109	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS114	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS540	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS857	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1101	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1102	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1103	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1104	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1105	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1106	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1107	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1108	ERJ3GEY0R00	M 0OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
JS1109	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1110	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1150	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1320	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1321	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1322	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1338	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1360	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1361	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1362	ERJ3GEY0R00	M 0OHM,J,1/16W	
L1	TJS3A9900	10P CONNECTOR	
L2	TJS3A9640	3P CONNECTOR	
L3	TJS3A9670	6P CONNECTOR	
LA11	K1ZZ00001205	CONNECTOR	
P90	K1KA05A00164	CONNECTOR	
P92	TJS3A9640	3P CONNECTOR	
RL891	K6B2ADA00005	RELAY	⚠
RT1	TJS3A9640	3P CONNECTOR	
RT2	TJS3A9650	4P CONNECTOR	
S840	ESB92DA1B	SWITCH	⚠
S1020	EVQ11G05R	SWITCH	
S1021	EVQ11G05R	SWITCH	
S1022	EVQ11G05R	SWITCH	
S1023	EVQ11G05R	SWITCH	
S1024	EVQ11G05R	SWITCH	
S1025	EVQ11G05R	SWITCH	
TNR1	ENG39608GD	TUNER	⚠
X3	TJS3A9670	6P CONNECTOR	
X24	TJS4G8010	16P CONNECTOR	
X25	TJS4G8010	16P CONNECTOR	
X32	TJS3A9670	6P CONNECTOR	
X1150	H0J600400006	CRYSTAL OSCILLATOR	
X1301	TSSA171	CRYSTAL OSCILLATOR	
X2130	TSSA128	CRYSTAL OSCILLATOR	
	TXFPC01WB2S	CARTON (S'PORE ONLY)	
	TXFPC01XC2P	CARTON (M'EAST ONLY)	
	TXFPD01WB2S	CUSHION (TOP)	
	TXFPD02WB2S	CUSHION (BOTTOM)	
	RESISTORS		
R101	ERJ3GEY0R00	M 0OHM,J,1/16W	
R106	ERJ3GEYJ100	M 10OHM,J,1/16W	
R107	ERG3ANJ153	M 15KOHM,J, 3W	
R110	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R115	ERJ3GEY0R00	M 0OHM,J,1/16W	
R120	ERJ3GEYJ683	M 68KOHM,J,1/16W	
R121	ERJ3GEYJ683	M 68KOHM,J,1/16W	
R351	ERJ3GEYJ271	M 270OHM,J,1/16W	
R352	ERJ3EKF1801	M 1.8KOHM,F,1/16W	
R353	ERJ3EKF1401	M 1.4KOHM,F,1/16W	
R354	ERG3FJ823H	M 82KOHM,J, 3W	
R355	ERJ3GEY0R00	M 0OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R356	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R357	ERC12GK561	S 560OHM,K, 1/2W	
R360	ERJ3GEYJ221	M 220OHM,J,1/16W	
R361	ERJ3EKF1801	M 1.8KOHM,F,1/16W	
R362	ERG3FJ823H	M 82KOHM,J, 3W	
R363	ERJ3EKF1401	M 1.4KOHM,F,1/16W	
R364	ERJ3GEY0R00	M 0OHM,J,1/16W	
R365	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R366	ERC12GK561	S 560OHM,K, 1/2W	
R370	ERJ3GEYJ271	M 270OHM,J,1/16W	
R371	ERJ3EKF1801	M 1.8KOHM,F,1/16W	
R372	ERJ3EKF1401	M 1.4KOHM,F,1/16W	
R373	ERG3FJ823H	M 82KOHM,J, 3W	
R374	ERJ3GEY0R00	M 0OHM,J,1/16W	
R375	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R376	ERC12GK561	S 560OHM,K, 1/2W	
R381	ERG3FJ470H	M 47OHM,J, 3W	
R382	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R385	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R387	ERDS1TJ471	C 470OHM,J, 1/2W	
R389	ERJ3EKF1620	M 162OHM,F,1/16W	
R401	ERJ3EKF8201	M 8.2KOHM,F,1/16W	
R402	ERJ3EKF3902	M 39KOHM,F,1/16W	
R403	ERJ3EKF1582	M15.8KOHM,F,1/16W	
R404	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R405	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R406	ERJ3EKF1002	M 10KOHM,F,1/16W	
R407	ERJ3EKF1001	M 1KOHM,F,1/16W	
R408	ERJ3EKF9760	M 976OHM,F,1/16W	
R409	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R410	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R411	ERJ3GEYJ121	M 120OHM,J,1/16W	
R412	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R415	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R416	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R417	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R418	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R419	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R451	ERDS1TJ1R5	C 1.5OHM,J, 1/2W	
R452	ERDS1TJ1R5	C 1.5OHM,J, 1/2W	
R453	ERJ3GEYJ393	M 39KOHM,J,1/16W	
R454	ERJ3GEYJ123	M 12KOHM,J,1/16W	
R455	ERJ3GEYJ101	M 100OHM,J,1/16W	
R565	ERDS2TJ103	C 10KOHM,J, 1/4W	
R566	ERDS2TJ334	C 330KOHM,J, 1/4W	
R567	ERDS2TJ223	C 22KOHM,J, 1/4W	
R568	ERDS2TJ154	C 150KOHM,J, 1/4W	
R569	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R575	ERJ3GEYJ221	M 220OHM,J,1/16W	
R576	ERJ3GEYJ391	M 390OHM,J,1/16W	
R577	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R578	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R579	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R583	ERG3FJ151H	M 150OHM,J, 3W	

Ref. No.	Part No.	Part Name & Description	Remarks
R705	ERF5ZJ220	W 22OHM,J, 5W	
R714	ERDS1FJ680	C 68OHM,J, 1/2W	
R719	ERF5AK5R6	W 5.6OHM,K, 5W	
R801	TAR26NJ2R7Z	W 2.7OHM,J, 7W	⚠
R808	ERQ14AJ100E	F 10OHM,J, 1/4W	
R809	ERG2FJ470H	M 47OHM,J, 2W	
R812	ERDS2TJ104	C 100KOHM,J, 1/4W	
R813	ERG2SJS104H	M 100KOHM,J, 2W	
R817	ERQ12AJ680P	F 68OHM, 1/2W	
R818	ERG2SJS104H	M 100KOHM,J, 2W	
R819	ERDS2TJ101	C 100OHM,J, 1/4W	
R820	ERX12SZJR12E	M 0.12OHM,J, 1/2W	
R821	ERX12SZJR12E	M 0.12OHM,J, 1/2W	
R823	ERDS2TJ152	C 1.5KOHM,J, 1/4W	
R824	ERDS2TJ153	C 15KOHM,J, 1/4W	
R825	ERDS2TJ123	C 12KOHM,J, 1/4W	
R826	ERG1SJ223P	M 22KOHM,J, 1W	
R828	ERDS2TJ681	C 680OHM,J, 1/4W	
R829	ERDS2TJ682	C 6.8KOHM,J, 1/4W	
R832	ERDS2TJ102	C 1KOHM,J, 1/4W	
R840	ERD75TAJ825	C 8.2MOHM,J, 3/4W	
R851	ERQ2CKR33	F 0.33OHM,K, 2W	
R853	D0D5R33KA007	W 0.33OHM,K, 5W	
R854	D0D5R33KA007	W 0.33OHM,K, 5W	
R857	ERG2SJ471E	M 470OHM,J, 2W	
R858	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R859	ERDS1TJ152	C 1.5KOHM,J, 1/2W	
R860	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R866	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R870	ER0S2CKF2551	M2.55KOHM,F, 1/4W	
R878	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R880	ERJ3GEY0R00	M 0OHM,J,1/16W	
R881	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R882	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R883	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R885	ERJ3GEY0R00	M 0OHM,J,1/16W	
R891	ERDS2TJ473	C 47KOHM,J, 1/4W	
R892	ERDS2TJ102	C 1KOHM,J, 1/4W	
R893	ERC14GK824	S 820KOHM,K, 1/4W	
R901	ERDS1FJ102	C 1KOHM,J, 1/2W	
R902	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R903	ERJ3GEYJ183	M 18KOHM,J,1/16W	
R904	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R905	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R906	ERJ3GEYJ271	M 270OHM,J,1/16W	
R907	ERJ3GEYJ510	M 51OHM,J,1/16W	
R908	ERJ3GEYJ391	M 390OHM,J,1/16W	
R909	ERJ3GEYJ271	M 270OHM,J,1/16W	
R950	ERQ1CJP331S	F 330OHM,J, 1W	
R952	ERDS2TJ561	C 560OHM,J, 1/4W	
R953	ERJ3GEYJ271	M 270OHM,J,1/16W	
R954	ERDS1FJ561	C 560OHM,J, 1/2W	
R1137	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1138	ERJ3GEYJ101	M 100OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1139	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1140	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1141	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1143	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1144	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1145	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1146	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1147	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1148	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1149	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1150	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1151	ERJ3GEYJ680	M 68OHM,J,1/16W	
R1152	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1153	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1154	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1155	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1156	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1158	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1160	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1161	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1162	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1163	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1164	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1165	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1166	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1168	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1169	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1170	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1171	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1172	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1173	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1174	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1176	ERJ3GEYJ100	M 10OHM,J,1/16W	
R1178	ERJ3GEYJ100	M 10OHM,J,1/16W	
R1182	EXB38V680J	RESISTOR ARRAY	
R1183	EXB38V680J	RESISTOR ARRAY	
R1184	EXB38V680J	RESISTOR ARRAY	
R1185	EXB38V680J	RESISTOR ARRAY	
R1188	ERJ3GEYJ680	M 68OHM,J,1/16W	
R1190	EXB38V680J	RESISTOR ARRAY	
R1193	EXB38V680J	RESISTOR ARRAY	
R1195	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1196	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1198	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1199	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1201	ERJ3EKF2202	M 22KOHM,F,1/16W	
R1202	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1210	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1211	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1212	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1213	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1214	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1215	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1216	ERDS2TJ472	C 4.7KOHM,J, 1/4W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1217	ERDS2TJ332	C 3.3KOHM,J, 1/4W	
R1218	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1219	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1220	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1221	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1222	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1223	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1367	ERJ3GEYJ221	M 220OHM,J,1/16W	
R1370	ERJ3GEYJ471	M 470OHM,J,1/16W	
R1371	ERJ3GEYJ471	M 470OHM,J,1/16W	
R1375	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1376	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1380	EXB38V103J	RESISTOR ARRAY	
R1383	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1384	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1385	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1386	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1387	ERJ3EKF1201	M 1.2KOHM,F,1/16W	
R1388	ERJ3EKF2801	M 2.8KOHM,F,1/16W	
R1389	ERJ3EKF1201	M 1.2KOHM,F,1/16W	
R1390	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1401	ERJ3GEYJ242	M 2.4KOHM,J,1/16W	
R1405	ERJ3GEYJ123	M 12KOHM,J,1/16W	
R1406	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1409	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1410	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1411	ERJ3EKF2701	M 2.7KOHM,F,1/16W	
R1412	ERJ3GEYJ271	M 270OHM,J,1/16W	
R1413	ERJ3GEYJ471	M 470OHM,J,1/16W	
R1414	ERJ3GEYJ471	M 470OHM,J,1/16W	
R1416	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1417	ERJ3GEYJ271	M 270OHM,J,1/16W	
R1418	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1419	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1420	ERJ3EKF2701	M 2.7KOHM,F,1/16W	
R1421	ERJ3EKF1101	M 1.1KOHM, 1/16W	
R1422	ERJ3EKF1401	M 1.4KOHM,F,1/16W	
R1423	ERJ3EKF1101	M 1.1KOHM, 1/16W	
R1424	ERJ3EKF1401	M 1.4KOHM,F,1/16W	
R1425	ERJ3EKF1401	M 1.4KOHM,F,1/16W	
R1426	ERJ3EKF1101	M 1.1KOHM, 1/16W	
R1427	ERJ3EKF1401	M 1.4KOHM,F,1/16W	
R1428	ERJ3EKF1101	M 1.1KOHM, 1/16W	
R1429	ERJ3EKF2701	M 2.7KOHM,F,1/16W	
R1430	ERJ3EKF2701	M 2.7KOHM,F,1/16W	
R1432	ERJ3GEYJ221	M 220OHM,J,1/16W	
R1433	ERJ3GEYJ221	M 220OHM,J,1/16W	
R1434	ERJ3GEYJ471	M 470OHM,J,1/16W	
R1435	ERJ3GEYJ470	M 47OHM,J,1/16W	
R1436	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1437	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1440	EXB38V680J	RESISTOR ARRAY	
R1441	EXB38V680J	RESISTOR ARRAY	
R1442	EXB38V680J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1443	ERJ3GEYJ680	M 68OHM,J,1/16W	
R1444	EXB38V680J	RESISTOR ARRAY	
R1445	EXB38V680J	RESISTOR ARRAY	
R1446	EXB38V680J	RESISTOR ARRAY	
R1447	ERJ3GEYJ680	M 68OHM,J,1/16W	
R1450	EXB38V680J	RESISTOR ARRAY	
R1451	EXB38V680J	RESISTOR ARRAY	
R1452	EXB38V680J	RESISTOR ARRAY	
R1453	ERJ3GEYJ680	M 68OHM,J,1/16W	
R1454	ERJ3GEYJ680	M 68OHM,J,1/16W	
R1455	EXB38V680J	RESISTOR ARRAY	
R1456	EXB38V680J	RESISTOR ARRAY	
R1457	EXB38V680J	RESISTOR ARRAY	
R1460	ERJ3GEYJ100	M 10OHM,J,1/16W	
R1461	ERJ3GEYJ100	M 10OHM,J,1/16W	
R1462	ERJ3GEYJ100	M 10OHM,J,1/16W	
R2112	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R2113	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R2114	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R2115	ERJ3GEYJ101	M 100OHM,J,1/16W	
R2116	ERJ3GEYJ101	M 100OHM,J,1/16W	
R2117	ERJ3GEYJ101	M 100OHM,J,1/16W	
R2130	ERJ3GEYJ471	M 470OHM,J,1/16W	
R2131	ERJ3GEYJ101	M 100OHM,J,1/16W	
R2301	ERJ3GEYJ151	M 150OHM,J,1/16W	
R2302	ERX3FJS4R7D	M 4.7OHM,J, 3W	
R2303	ERG1SJ102P	M 1KOHM,J, 1W	
R2310	ERJ3GEYJ123	M 12KOHM,J,1/16W	
R2320	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R2330	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R2331	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R2332	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R2333	ERJ3GEY0R00	M 0OHM,J,1/16W	
R2334	ERJ3GEYJ223	M 22KOHM,J,1/16W	
R2335	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R2337	ERJ3GEY0R00	M 0OHM,J,1/16W	
R2338	ERJ3GEYJ303	M 30KOHM,J,1/16W	
R2339	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R2340	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R2341	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R2801	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R2803	ERDS2TJ8R2	C 8.2OHM,J, 1/4W	
R2804	ERX2SJR56E	M 0.56OHM,J, 2W	
R2805	ERX2SJR56E	M 0.56OHM,J, 2W	
R2808	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R2809	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R2813	ERDS2TJ8R2	C 8.2OHM,J, 1/4W	
R2818	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R2819	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R2852	ERJ3GEYJ471	M 470OHM,J,1/16W	
R2853	ERJ3GEYJ471	M 470OHM,J,1/16W	
R3001	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3002	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3003	ERJ3GEYJ184	M 180KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3004	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3005	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3006	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3007	ERJ3GEYJ221	M 220OHM,J,1/16W	
R3009	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3010	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3011	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3012	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3015	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3016	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3017	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3018	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3019	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3020	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R3021	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3022	ERDS2TJ102	C 1KOHM,J, 1/4W	
R3023	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3025	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3026	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3027	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3028	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3029	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3030	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3031	ERJ3GEYJ223	M 22KOHM,J,1/16W	
R3032	ERJ3GEYJ471	M 470OHM,J,1/16W	
R3312	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3313	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3314	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3315	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3316	ERJ3GEYJ750	M 75OHM,J,1/16W	
R3317	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3320	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3321	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3322	ERJ3GEYJ331	M 330OHM,J,1/16W	
R3330	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3331	ERJ3GEY0R00	M 0OHM,J,1/16W	
R3332	ERJ3GEY0R00	M 0OHM,J,1/16W	
R4801	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4803	ERX12SJ2R7E	M 2.7OHM,J, 1/2W	
R4804	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R4805	ERJ3EKF1331	M1.33KOHM,F,1/16W	
R4806	ERJ3EKF3320	M 332OHM,F,1/16W	
R4807	ERJ3EKF1001	M 1KOHM,F,1/16W	
R4808	ERJ3EKF3832	M38.3KOHM,F,1/16W	
R4809	ERJ3EKF9091	M9.09KOHM,F,1/16W	
R4810	ERJ3EKF2213	M 221KOHM,F,1/16W	
R4811	ERJ3EKF5491	M5.49KOHM,F,1/16W	
R4812	ER0S2CKF5621	M5.62KOHM,F, 1/4W	
R4816	ERDS1FJ680	C 68OHM,J, 1/2W	
R4818	ERX12SJ2R7E	M 2.7OHM,J, 1/2W	
R4819	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R4820	ERJ6ENF1331	M1.33KOHM, 1/10W	
R4821	ERJ6ENF3320	M 332OHM, 1/10W	
R4822	ERJ6ENF1001	M 1KOHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R4823	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R4824	ERJ6ENF5621	M5.62KOHM, 1/10W	
R4825	ERJ6ENF3832	M38.3KOHM, 1/10W	
R4826	ERJ6ENF2213	M 221KOHM, 1/10W	
R4827	ERJ6ENF9091	M9.09KOHM, 1/10W	
R4828	ERJ6ENF6651	M6.65KOHM, 1/10W	
R4829	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4831	ERDS1FJ220	C 22OHM,J, 1/2W	
R4837	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4840	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4841	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4842	ERJ6GEYJ101	M 100OHM,J,1/10W	
R4843	ERJ6GEYJ471	M 470OHM,J,1/10W	
R4844	ERJ6GEYJ561	M 560OHM,J,1/10W	
R4850	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R4851	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R4852	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R4853	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R4854	ERJ6GEYJ101	M 100OHM,J,1/10W	
R4855	ERJ6GEYJ101	M 100OHM,J,1/10W	
R4856	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4857	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4860	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	
R4861	EVMEGSA00B23	VARIABLE RESISTOR	
R4862	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	
R4863	EVMEGSA00B23	VARIABLE RESISTOR	
R5501	ERG2FJS123D	M 12KOHM,J, 2W	
R5502	ERDS2TJ101	C 100OHM,J, 1/4W	
R5503	ERDS2TJ103	C 10KOHM,J, 1/4W	
R5504	ERDS2TJ103	C 10KOHM,J, 1/4W	
R5505	ERDS2TJ333	C 33KOHM,J, 1/4W	
R5506	ERDS2TJ560	C 56OHM,J, 1/4W	
R5510	ERDS2TJ102	C 1KOHM,J, 1/4W	
R5511	ERDS2TJ101	C 100OHM,J, 1/4W	
C510	ECQB1H103JF	P 0.01UF, 50V	
C511	ECA1HHG100	E 10UF, 50V	
C521	F1B1H103A013	C 0.01UF, 50V	
C525	ECA1HHG010	E 1UF, 50V	
C529	ECQM1823KZ	P 0.082UF, K,100V	
C531	ECEA2CNR47S	E 0.47UF, 160V	
C532	ECKR1H472KB5	C 4700PF, K, 50V	
C533	ECKW2H103ZF7	C 0.01UF, Z,500V	
C534	ECQB1H223JF	P 0.022UF, J, 50V	
C536	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C537	ECJ1VB1H102K	C 1000PF, K, 50V	
C544	ECA1EM102B	E 1000UF, 25V	
C545	ECA1VM101B	E 100UF, 35V	
C549	ECQV1H104JL	P 0.1UF, J, 50V	
C554	ECKW3D331JBR	C 330PF, J, 2KV	
C555	ECWH20102JVY	P 1000PF, J, 2KV	
C556	ECWH20512JVB	P 5100PF, J, 2KV	
C557	ECWH20512JVB	P 5100PF, J, 2KV	
C560	ECQF4153JZ	P 0.015UF, J,400V	
C561	ECQF4123JZ	P 0.012UF, J,400V	

Ref. No.	Part No.	Part Name & Description	Remarks
C565	ECQP1183JZ	P 0.018UF, J,100V	
C567	ECKR3A821JBP	C 820PF, J, 1KV	
C568	ECEA1HKA0R1	E 0.1UF, 50V	
C575	ECJ1VC1H221J	C 220PF, J, 50V	
C581	ECWF4364JBB	P 0.36UF, J,400V	
C582	ECWF4394JBB	P 0.39UF, J,400V	
C583	ECWF4364JBB	P 0.36UF, J,400V	
C584	ECWF4364JBB	P 0.36UF, J,400V	
C585	ECKR3A821KBP	C 820PF, K, 1KV	
C703	ECQE2334KF	P 0.33UF, K,250V	
C705	ECKW3A272KBP	C 2700PF, K, 1KV	
C709	ECQE1335KF	P 3.3UF, K,100V	
C710	ECQE1335KF	P 3.3UF, K,100V	
C711	ECQE1335KF	P 3.3UF, K,100V	
C715	ECKW3D271KBP	C 270PF, K, 2KV	
C801	ECQU2A224BN9	P 0.22UF, 250V	⚠
C802	ECQU2A224BN9	P 0.22UF, 250V	⚠
C804	ECQU2A224BN9	P 0.22UF, 250V	⚠
C806	ECKCNA472ME7	C 4700PF, M,	⚠
C807	ECKWAE472ZED	C 4700PF, Z,500V	
C808	ECKWAE472ZED	C 4700PF, Z,500V	
C809	ECKWAE472ZED	C 4700PF, Z,500V	
C810	TACFL2G561MA	C 560UF, M,400V	⚠
C812	ECQM4473JZ	P 0.047UF, J,400V	
C816	ECA2AM100B	E 10UF, 100V	
C817	ECQB1H104JF	P 0.1UF, 50V	
C819	F4Y5P4B102K	C 1000PF, K, 50V	
C820	ECKW3D102KBP	C 1000PF, K, 2KV	
C821	ECKW3D101KBP	C 100PF, K, 2KV	
C822	ECKW3D101KBP	C 100PF, K, 2KV	
C823	ECKR3A331KBP	C 330PF, K, 1KV	
C828	ECA1CHG221	E 220UF, 16V	
C829	F1B1H103A013	C 0.01UF, 50V	
C830	ECQB1H473JF	P 0.047UF, J, 50V	
C831	ECA1CM470B	E 47UF, 16V	
C835	ECKCNA152ME7	C 1500PF, M,	⚠
C838	ECQU2A224BN9	P 0.22UF, 250V	
C839	ECQU2A224BN9	P 0.22UF, 250V	
C840	ECKCNA101MB7	C 100PF, M,	⚠
C841	ECKCNA102MB7	C 1000PF, M,	⚠
C842	ECKCNA102MB7	C 1000PF, M,	⚠
C843	ECKCNA222ME7	C 2200PF, M,	⚠
C844	ECKCNA472ME7	C 4700PF, M,	⚠
C1172	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1190	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1201	ECA1HHG220	E 22UF, 50V	
C1210	ECA1CM101B	E 100UF, 16V	
C1211	ECJ1VF1H103Z	C 0.01UF, Z, 50V	
C1215	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1216	ECJ2VF1E104Z	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1230	ECEA1CN470U	E 47UF, 16V	
C1231	ECA1CM471B	E 470UF, 16V	
C1232	ECJ1VC1H680J	C 68PF, J, 50V	
C1250	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1251	ECA1CM222B	E 2200UF, 16V	
C1252	ECA0JM222B	E 2200UF, 6.3V	
C1253	EEUFC1A471B	E 470UF, 10V	
C1256	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C1257	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C1260	ECA1CM471B	E 470UF, 16V	
C1261	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C1262	ECA1CM471B	E 470UF, 16V	
C1263	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C1265	ECA0JM101B	E 100UF, 6.3V	
C1266	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C1268	ECA0JM101B	E 100UF, 6.3V	
C1270	ECA1HM100B	E 10UF, 50V	
C1271	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C1272	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C1273	ECA1HM100B	E 10UF, 50V	
C1281	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1282	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1301	ECJ1VB0J105K	C 1UF, K,6.3V	
C1302	ECJ1VB0J105K	C 1UF, K,6.3V	
C1303	ECJ1VB0J105K	C 1UF, K,6.3V	
C1304	ECJ1VB0J105K	C 1UF, K,6.3V	
C1305	ECJ1VC1H150J	C 15PF, J, 50V	
C1306	ECJ1VC1H100D	C 10PF, D, 50V	
C1307	ECJ1VB0J105K	C 1UF, K,6.3V	
C1308	ECJ1VB0J105K	C 1UF, K,6.3V	
C1309	ECJ1VB0J105K	C 1UF, K,6.3V	
C1310	ECJ1VB0J105K	C 1UF, K,6.3V	
C1311	ECJ1VB0J105K	C 1UF, K,6.3V	
C1312	ECJ1VB0J105K	C 1UF, K,6.3V	
C1313	EEVHB1C100R	E 10UF, 16V	
C1314	ECJ1VB0J105K	C 1UF, K,6.3V	
C1315	ECJ1VB0J105K	C 1UF, K,6.3V	
C1317	ECJ1VB0J105K	C 1UF, K,6.3V	
C1318	ECJ1VB0J105K	C 1UF, K,6.3V	
C1319	ECJ1VB0J105K	C 1UF, K,6.3V	
C1320	ECJ1VB0J105K	C 1UF, K,6.3V	
C1321	ECJ1VB0J105K	C 1UF, K,6.3V	
C1322	EEVHB0J101P	E 100UF, 6.3V	
C1324	ECJ1VB0J105K	C 1UF, K,6.3V	
C1325	ECJ1VB0J105K	C 1UF, K,6.3V	
C1326	ECJ1VB0J105K	C 1UF, K,6.3V	
C1327	ECJ1VB0J105K	C 1UF, K,6.3V	
C1328	ECJ1VB0J105K	C 1UF, K,6.3V	
C1329	ECJ1VB0J105K	C 1UF, K,6.3V	
C1330	EEVHP1H1R0R	E 1UF, 50V	
C1331	ECJ1VC1H101J	C 100PF, J, 50V	
C1332	ECJ1VC1H100D	C 10PF, D, 50V	
C1333	ECJ1VC1H121J	C 120PF, J, 50V	
C1334	EEVHP1H1R0R	E 1UF, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1335	ECJ1VC1H101J	C 100PF, J, 50V	
C1336	ECJ1VC1H100D	C 10PF, D, 50V	
C1415	ECJ1VC1H680J	C 68PF, J, 50V	
C1416	ECJ1VC1H330J	C 33PF, J, 50V	
C1417	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1418	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1419	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1420	ECJ1VB0J105K	C 1UF, K,6.3V	
C1421	ECJ1VB0J105K	C 1UF, K,6.3V	
C1422	ECJ1VB0J105K	C 1UF, K,6.3V	
C1423	ECJ1VB0J105K	C 1UF, K,6.3V	
C1424	ECJ1VB0J105K	C 1UF, K,6.3V	
C1425	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1426	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1427	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1428	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1429	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1430	ECJ1VB0J105K	C 1UF, K,6.3V	
C1440	ECJ1VB0J105K	C 1UF, K,6.3V	
C1441	ECJ1VB0J105K	C 1UF, K,6.3V	
C1442	ECJ1VB0J105K	C 1UF, K,6.3V	
C1443	ECJ1VB0J105K	C 1UF, K,6.3V	
C1444	ECJ1VB0J105K	C 1UF, K,6.3V	
C1445	ECJ1VB0J105K	C 1UF, K,6.3V	
C1446	ECJ1VB0J105K	C 1UF, K,6.3V	
C1447	ECJ1VB0J105K	C 1UF, K,6.3V	
C1448	ECJ1VB0J105K	C 1UF, K,6.3V	
C1449	ECJ1VB0J105K	C 1UF, K,6.3V	
C1450	ECJ1VB0J105K	C 1UF, K,6.3V	
C1451	ECJ1VB0J105K	C 1UF, K,6.3V	
C1452	EEVHB1C100R	E 10UF, 16V	
C1455	ECJ1VB0J105K	C 1UF, K,6.3V	
C1456	ECJ1VB0J105K	C 1UF, K,6.3V	
C1457	ECJ1VB0J105K	C 1UF, K,6.3V	
C1458	ECJ1VB0J105K	C 1UF, K,6.3V	
C1459	ECJ1VB0J105K	C 1UF, K,6.3V	
C1460	ECJ1VB0J105K	C 1UF, K,6.3V	
C1461	ECJ1VB0J105K	C 1UF, K,6.3V	
C1462	ECJ1VB0J105K	C 1UF, K,6.3V	
C1463	ECJ1VB0J105K	C 1UF, K,6.3V	
C1464	ECJ1VB0J105K	C 1UF, K,6.3V	
C1465	ECJ1VB0J105K	C 1UF, K,6.3V	
C1466	ECJ1VB0J105K	C 1UF, K,6.3V	
C1467	EEVHB1C100R	E 10UF, 16V	
C1473	ECJ1VB0J105K	C 1UF, K,6.3V	
C1474	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1476	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1477	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1478	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1479	EEVHB1C100R	E 10UF, 16V	
C1480	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1481	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1482	EEVHB1C470P	E 47UF, 16V	
C1485	ECJ1VB1H103K	C 0.01UF, K, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1486	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1487	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1490	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1491	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1492	ECJ1VB1C223K	C 0.022UF, K, 16V	
C1495	ECHU1C333JB5	P 0.033UF, J, 16V	
C1496	EEVHB0J101P	E 100UF, 6.3V	
C1497	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1498	ECHU1C104JB5	P 0.1UF, J, 16V	
C1501	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1502	EEVHB1C100R	E 10UF, 16V	
C2801	ECA1HM010B	E 1UF, 50V	
C2802	ECJ1VF1C224Z	C 0.22UF, Z, 16V	
C2804	ECA1HM2R2B	E 2.2UF, 50V	
C2809	ECJ1VF1H102Z	C 1000PF, Z, 50V	
C2810	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C2811	ECA1HM010B	E 1UF, 50V	
C2812	ECJ1VF1C224Z	C 0.22UF, Z, 16V	
C2813	ECJ2VB1H561K	C 560PF, K, 50V	
C2816	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C2817	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C2819	ECJ1VF1H102Z	C 1000PF, Z, 50V	
C2820	ECA1EM102B	E 1000UF, 25V	
C2821	ECA1EM102B	E 1000UF, 25V	
C2851	ECJ1VF1H103Z	C 0.01UF, Z, 50V	
C2852	ECJ1VF1H103Z	C 0.01UF, Z, 50V	
C2855	ECEA1HN2R2U	E 2.2UF, 50V	
C2856	ECEA1HN2R2U	E 2.2UF, 50V	
C3001	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3002	ECA1HM2R2B	E 2.2UF, 50V	
C3003	ECJ1VB1H682K	C 6800PF, K, 50V	
C3004	ECA1HM2R2B	E 2.2UF, 50V	
C3005	ECJ1VB1H682K	C 6800PF, K, 50V	
C3007	ECJ1VF1C474Z	C 0.47UF, Z, 16V	
C3008	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C3009	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3010	ECJ1VC1H561K	C 560PF, K, 50V	
C3011	ECJ1VC1H561K	C 560PF, K, 50V	
C3012	ECJ1VC1H561K	C 560PF, K, 50V	
C3013	ECJ1VC1H561K	C 560PF, K, 50V	
C3015	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3016	ECA1HM2R2B	E 2.2UF, 50V	
C3017	ECJ1VB1H682K	C 6800PF, K, 50V	
C3018	ECA1HM2R2B	E 2.2UF, 50V	
C3019	ECJ1VB1H682K	C 6800PF, K, 50V	
C3020	ECJ1VF1H103Z	C 0.01UF, Z, 50V	
C3024	ECA1CM101B	E 100UF, 16V	
C3025	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C3026	ECA1CM101B	E 100UF, 16V	
C3027	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C3030	ECA1CM470B	E 47UF, 16V	
C3031	ECEA1AKA221	E 220UF, 10V	
C3032	ECEA1AKA221	E 220UF, 10V	
C3033	ECJ1VC1H561K	C 560PF, K, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3034	ECJ1VC1H561K	C 560PF, K, 50V	
C3035	ECJ1VC1H471J	C 470PF, J, 50V	
C3036	ECA1HM2R2B	E 2.2UF, 50V	
C3037	ECJ1VC1H471J	C 470PF, J, 50V	
C3038	ECA1HM2R2B	E 2.2UF, 50V	
C3048	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3049	ECA1HM220B	E 22UF, 50V	
C3050	ECA1CM101B	E 100UF, 16V	
C3051	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C3053	ECJ1VC1H561K	C 560PF, K, 50V	
C3054	ECJ1VC1H561K	C 560PF, K, 50V	
C3055	ECA1HM2R2B	E 2.2UF, 50V	
C3056	ECJ1VB1H682K	C 6800PF, K, 50V	
C3057	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3058	ECA1HM2R2B	E 2.2UF, 50V	
C3059	ECJ1VB1H682K	C 6800PF, K, 50V	
C3070	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3071	ECA1HM2R2B	E 2.2UF, 50V	
C3072	ECA1HM2R2B	E 2.2UF, 50V	
C3080	ECJ2VF1C105Z	C 1UF, Z, 16V	
L103	EXCELDR35V	CORE	
L107	EXC3BB221H	CHIP BEAD CORE	
L110	EXCELSA35T	BEAD CORE	
L115	EXCELSA35T	BEAD CORE	
L116	EXCELSA35T	BEAD CORE	
L351	EXCELSA24T	BEAD CORE	
L352	EXCELDR35V	CORE	
L381	TLTACT6R8J	PEAKING COIL	
L382	TLTACT6R8J	PEAKING COIL	
L383	TLTACT150J	PEAKING COIL	
L387	EXCELDR35V	CORE	
L388	EXCELSA39V	BEAD CORE	
L501	EXCELDR35V	CORE	
L504	EXCELSA35T	BEAD CORE	
L506	EXCELSA35T	BEAD CORE	
L515	TALL08T680KA	INDUCTION COIL	⚠
L532	EXCELDR35V	CORE	
L553	EXCELDR35C	BEAD CORE	
L554	EXCELDR35C	BEAD CORE	
L558	EXCELSA39V	BEAD CORE	
L560	EXCELDR35C	BEAD CORE	
L561	EXCELDR35C	BEAD CORE	
L570	EXCELDR35V	CORE	
L581	ELC18B221F	CHOKE COIL	
L582	ELHKLB073B	LINEARITY COIL	
L583	ELH5L7724	LINEARITY COIL	
L701	ELC18E152	CHOKE COIL	
L702	ELC18B181G	CHOKE COIL	
L703	EXCELSA35T	BEAD CORE	
L704	EXCELDR35V	CORE	
L802	TLP4GD005	LINE FILTER	⚠
L803	TLP4GD005	LINE FILTER	⚠
L815	EXCELSA39E	BEAD CHOKE	

Ref. No.	Part No.	Part Name & Description	Remarks
L820	EXCELSA39E	BEAD CHOKE	
L828	EXCELDR35V	CORE	
L840	TLP4GD005	LINE FILTER	⚠
L850	EXCELSA35B	BEAD CORE	
L851	EXCELSA35B	BEAD CORE	
L853	EXCELDR35C	BEAD CORE	
L855	EXCELDR35C	BEAD CORE	
L892	EXCELDR25V	CORE	
L893	EXCELDR25V	CORE	
L904	TLTACT560J	PEAKING COIL	
L953	EXCELSA35T	BEAD CORE	
L954	EXCELSA35T	BEAD CORE	
L956	EXCELSA35T	BEAD CORE	
L1120	ELJFA5R6JF	CHIP INDUCTOR	
L1121	TALC325T4R7M	CHIP INDUCTOR COIL	
L1139	TALC325T4R7M	CHIP INDUCTOR COIL	
L1141	TALC325T4R7M	CHIP INDUCTOR COIL	
L1150	TALC325T4R7M	CHIP INDUCTOR COIL	
L1151	TALC325T4R7M	CHIP INDUCTOR COIL	
L1170	TALC325T4R7M	CHIP INDUCTOR COIL	
L1171	TALC325T4R7M	CHIP INDUCTOR COIL	
L1172	TALC325T4R7M	CHIP INDUCTOR COIL	
L1210	TLTACT100K	PEAKING COIL 10U	
L1230	TLTACT4R7J	PEAKING COIL	
L1250	EXCELDR35V	CORE	
L1251	EXCELDR35V	CORE	
L1252	EXCELDR35V	CORE	
L1253	TLPF095	CHOKE COIL	
L1255	EXCELDR35V	CORE	
L1256	EXCELDR35V	CORE	
LC1504	J0HABB000004	EMI FILTER	
LC1505	J0HABB000003	EMI FILTER	
LC1506	J0HAAB000012	EMI FILTER	
LC1507	J0HABB000003	EMI FILTER	
LC1508	J0HABB000003	EMI FILTER	
LC1509	J0HAAB000012	EMI FILTER	
LC1510	J0HAAB000012	EMI FILTER	
LC1511	J0HABB000003	EMI FILTER	
LC1514	J0HAAB000012	EMI FILTER	
LC1516	J0HAAB000012	EMI FILTER	
LC1517	ELKE103FA	NOISE FILTER	
LC1518	ELKE103FA	NOISE FILTER	
LC1519	ELKE103FA	NOISE FILTER	
LC1520	ELKE103FA	NOISE FILTER	
LC1521	ELKE103FA	NOISE FILTER	
LC1522	J0HAAB000012	EMI FILTER	
LC1523	ELKE103FA	NOISE FILTER	
LC1528	J0HABB000004	EMI FILTER	
LC1529	J0HAAB000012	EMI FILTER	
LC1530	J0HAAB000012	EMI FILTER	
LC1532	J0HAAB000012	EMI FILTER	
LC1533	J0HABB000003	EMI FILTER	
LC1534	J0HAAB000012	EMI FILTER	
LC1535	J0HAAB000012	EMI FILTER	

Ref. No.	Part No.	Part Name & Description	Remarks
LC1536	J0HAAB000012	EMI FILTER	
LC1537	J0HAAB000012	EMI FILTER	
LC1540	J0HAAB000012	EMI FILTER	
LC1541	J0HAAB000012	EMI FILTER	
LC1542	J0HAAB000012	EMI FILTER	
LC1543	J0HAAB000012	EMI FILTER	
LC1544	J0HAAB000012	EMI FILTER	
LC1545	J0HAAB000012	EMI FILTER	
LC1546	J0HAAB000012	EMI FILTER	
LC1547	J0HAAB000012	EMI FILTER	
LC1548	J0HAAB000012	EMI FILTER	
LC1550	ELKE103FA	NOISE FILTER	
LC4801	L2DA00000006	GEOMAGNETIC SENSOR	⚠
	TRANSFORMERS		
T501	ZTFN57007A	FLYBACK TRANS	⚠
T550	ETH19Y187AY	H DRIVE TRANS	⚠
T801	TLP4GA023D	SWITCHING TRANS	⚠
T5501	ETF18L101A	TRANSFORMER	⚠
	DIODES		
D105	MA3150HTX	ZENER DIODE	
D106	MA3150HTX	ZENER DIODE	
D120	MA152KTX	DIODE	
D351	D1NL40V70	DIODE	
D352	D1NL40V70	DIODE	
D353	MA3110LTX	ZENER DIODE	
D355	D1NL40V70	DIODE	
D356	D1NL40V70	DIODE	
D358	MA151KTX	DIODE	
D360	D1NL20UV70	DIODE	
D361	MA151KTX	DIODE	
D362	MA151KTX	DIODE	
D363	MA151KTX	DIODE	
D364	MA3130MTX	ZENER DIODE	
D365	MA3130MTX	ZENER DIODE	
D366	MA3130MTX	ZENER DIODE	
D383	D1NL40V70	DIODE	
D385	ERA22-04	DIODE	
D389	D1NL40V70	DIODE	
D401	MA152KTX	DIODE	
D860	TLP721FD4GR	PHOTO COUPLER	⚠
D861	MTZJ20D	ZENER DIODE	
D863	MA4030L	DIODE	
D870	MAZ40240HF	ZENER DIODE	
D890	D4DDD1200001	POSISTOR	⚠
D891	D4DDD1200001	POSISTOR	⚠
D892	MA165	DIODE	
D953	SR2KNLFA1	DIODE	
D961	MA152KTX	DIODE	
D1001	LNH201RGRF5	LED	
D1003	MTZJ5.6B	ZENER DIODE	
D1004	MTZJ6.2A	ZENER DIODE	

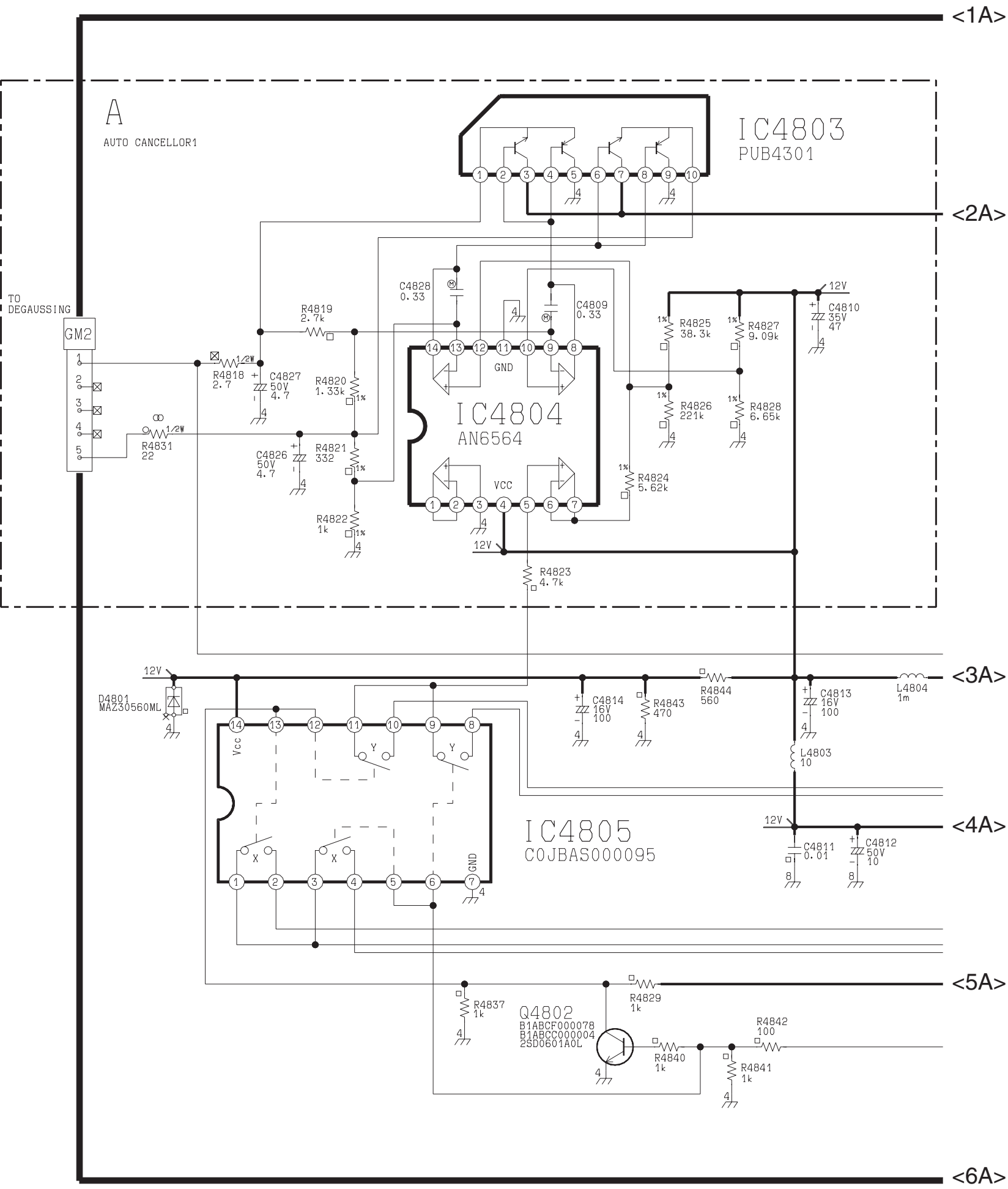
Ref. No.	Part No.	Part Name & Description	Remarks
D1250	RK34LFC4	DIODE	
D1251	MA704ATX	DIODE	
D1252	MAZ30390LL	ZENER DIODE	
D1253	MAZ30330LL	ZENER DIODE	
D1440	MA152KTX	DIODE	
D1511	MA152KTX	DIODE	
D2101	MTZJ5.6A	ZENER DIODE	
D2102	MTZJ5.6A	ZENER DIODE	
D2103	MTZJ6.2A	ZENER DIODE	
D2104	B0BA01100028	ZENER DIODE	
D2105	B0BA01100028	ZENER DIODE	
D2330	MA4047M	DIODE	
D2331	MA152KTX	DIODE	
D2332	MA152KTX	DIODE	
D2333	MA29Q-A	DIODE	
D2334	MA152KTX	DIODE	
D2804	RN2ZLFA1	DIODE	
D2805	RN2ZLFA1	DIODE	
D3001	MA3091LTX	ZENER DIODE	
D3002	MA4036H	DIODE	
D3050	MA4100H	DIODE	
D3080	MA3091LTX	ZENER DIODE	
D3150	MA4033M	DIODE	
D3151	MA4033M	DIODE	
D3171	MA4036H	DIODE	
D4801	MA3056MTX	DIODE	
D4816	MTZJ15B	ZENER DIODE	
D4817	B0BA01100028	ZENER DIODE	
D5501	AU02A	DIODE	
D5502	AU02A	DIODE	
D5503	MA165	DIODE	
D5506	MTZJ6.2C	ZENER DIODE	
D5510	MA165	DIODE	
D5511	RP1HLFA5	DIODE	
D5512	RP1HLFA5	DIODE	
	INTEGRATED CIRCUITS		
IC351	TDA6111Q	IC	
IC352	TDA6111Q	IC	
IC353	TDA6111Q	IC	
IC401	NJM2903M	LINEAR IC	
IC451	TDA8177	IC	
IC501	NJM2903M	LINEAR IC	
IC801	STRX6456LF02	IC	⚠
IC860	SE140N	LINEAR IC	
IC881	PQ12RD1B	LINEAR IC	
IC882	AN7809	LINEAR IC	
IC883	AN7808	LINEAR IC	
IC884	PQ05RD1B	LINEAR IC	
IC1001	B3RAD0000012	REMOTE RECEIVER I	
IC1101	SDA5550M	IC	
IC1102	TVR4G2-2	FLASH MEMORY IC	
Q954	2SA1037AKT	TRANSISTOR	
Q955	2SA1535ARLB	TRANSISTOR	
Q956	2SC3944ARLB	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q1001	B1ABCF000078	TRANSISTOR	
Q1060	B1ABCF000078	TRANSISTOR	
Q1130	B1ABCF000078	TRANSISTOR	
Q1131	2SA1037AKT	TRANSISTOR	
Q1150	B1ABCF000078	TRANSISTOR	
Q1230	B1ABCF000078	TRANSISTOR	
Q1231	2SA1037AKT	TRANSISTOR	
Q1301	B1ABCF000078	TRANSISTOR	
Q1302	B1ABCF000078	TRANSISTOR	
Q1303	B1ABCF000078	TRANSISTOR	
Q1335	2SA1037AKT	TRANSISTOR	
Q1336	2SA1037AKT	TRANSISTOR	
Q1337	2SA1037AKT	TRANSISTOR	
Q1365	2SD10300TL	TRANSISTOR	
Q1366	2SD10300TL	TRANSISTOR	
Q1375	2SA1037AKT	TRANSISTOR	
Q1376	2SA1037AKT	TRANSISTOR	
Q1380	2SA1037AKT	TRANSISTOR	
Q1381	B1ABCF000078	TRANSISTOR	
Q1390	B1ABCF000078	TRANSISTOR	
Q1430	2SA1037AKT	TRANSISTOR	
Q1490	B1ABCF000078	TRANSISTOR	
Q1553	B1ABCF000078	TRANSISTOR	
Q1554	B1ABCF000078	TRANSISTOR	
Q1555	B1ABCF000078	TRANSISTOR	
Q1601	B1ABCF000078	TRANSISTOR	
Q1602	B1ABCF000078	TRANSISTOR	
Q1603	B1ABCF000078	TRANSISTOR	
Q2101	B1ABCF000078	TRANSISTOR	
Q2110	2SA1037AKT	TRANSISTOR	
Q2111	2SA1037AKT	TRANSISTOR	
Q2112	2SA1037AKT	TRANSISTOR	
Q2330	2SA1037AKT	TRANSISTOR	
Q2331	B1ABCF000078	TRANSISTOR	
Q2332	B1ABCF000078	TRANSISTOR	
Q2333	B1ABCF000078	TRANSISTOR	
Q2334	B1ABCF000078	TRANSISTOR	
Q3030	B1ABCF000078	TRANSISTOR	
Q3031	B1ABCF000078	TRANSISTOR	
Q3032	B1ABCF000078	TRANSISTOR	
Q3033	B1ABCF000078	TRANSISTOR	
Q3150	B1ABCF000078	TRANSISTOR	
Q3151	B1ABCF000078	TRANSISTOR	
Q3304	ERJ3GEY0R00	M 0OHM,J,1/16W	
Q3305	ERJ3GEY0R00	M 0OHM,J,1/16W	
Q4801	B1ABCF000078	TRANSISTOR	
Q4802	B1ABCF000078	TRANSISTOR	
Q5501	2SK1006RF122	TRANSISTOR	
Q5502	2SC3311AS	TRANSISTOR	
Q5503	2SC3311AS	TRANSISTOR	
Q5505	2SC5460	TRANSISTOR	
Q5506	2SC3311A	TRANSISTOR	
Q5508	2SA1018Q	TRANSISTOR	
	OTHERS		

Ref. No.	Part No.	Part Name & Description	Remarks
A1	TJS3A9900	10P CONNECTOR	
A5	K1ZZ00001205	CONNECTOR	
A7	TJS3A9890	9P CONNECTOR	
A9	TJS3A9890	9P CONNECTOR	
A11	TJSF17335	CONNECTOR	
A12	TJS3A9670	6P CONNECTOR	
JS1370	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1371	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1372	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1386	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1387	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1401	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1402	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1403	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1420	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1421	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1422	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1430	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1431	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1432	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1512	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1513	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1515	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1524	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1525	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1526	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1531	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1539	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1549	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS1601	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2119	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2120	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2121	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2140	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2141	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2142	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2143	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2144	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2145	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2146	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2150	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2814	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2850	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS2851	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3001	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3002	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3003	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3004	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3011	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3012	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3013	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3014	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3015	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3031	ERJ3GEY0R00	M 0OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
JS3032	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3051	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3052	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3171	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3172	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS3310	ERJ3GEY0R00	M 0OHM,J,1/16W	
JS4815	ERJ3GEY0R00	M 0OHM,J,1/16W	
K9	TJS3A9890	9P CONNECTOR	
K12	TJS3A9670	6P CONNECTOR	
K13	TJS3A9650	4P CONNECTOR	
K17	TJS3A9890	9P CONNECTOR	
K20	TJS3A9890	9P CONNECTOR	
K22	TJS3A9660	CONNECTOR	
K23	TJS3A9650	4P CONNECTOR	
K27	TJS3A9660	CONNECTOR	

12. SCHEMATIC DIAGRAM PRINTING WITH A4 SIZE.


A
AUTO CANCELLOR1
IC4803
PUB4301
TO
DEGAUSSING
GM2
R4818
2.7
C4827
50V
4.7
R4819
2.7k
R4820
1.33k
R4831
22
C4826
50V
4.7
R4821
332
R4822
1k
C4828
0.33
C4809
0.33
IC4804
AN6564
GND
VCC
R4823
4.7k
R4824
5.62k
R4825
38.3k
R4826
221k
R4827
9.09k
R4828
6.65k
12V
C4810
35V
47
D4801
MAZ30560ML
C4814
16V
100
R4843
470
R4844
560
C4813
16V
100
L4804
1m
L4803
10
IC4805
C0JBAS000095
Vcc
GND
C4811
0.01
C4812
50V
10
R4837
1k
Q4802
B1ABCF000078
B1ABCC000004
2SD0601A0L
R4829
1k
R4840
1k
R4841
1k
R4842
100
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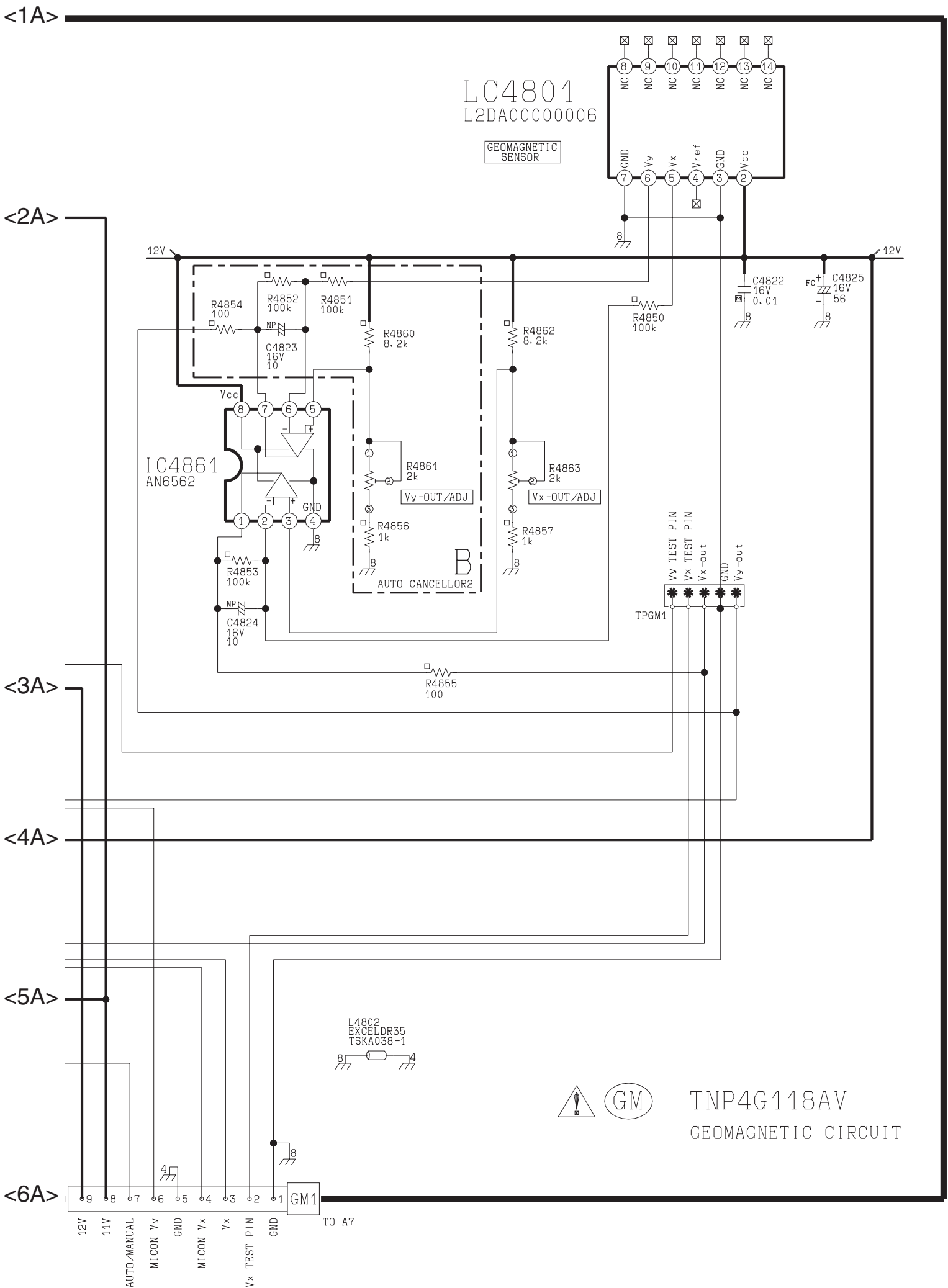
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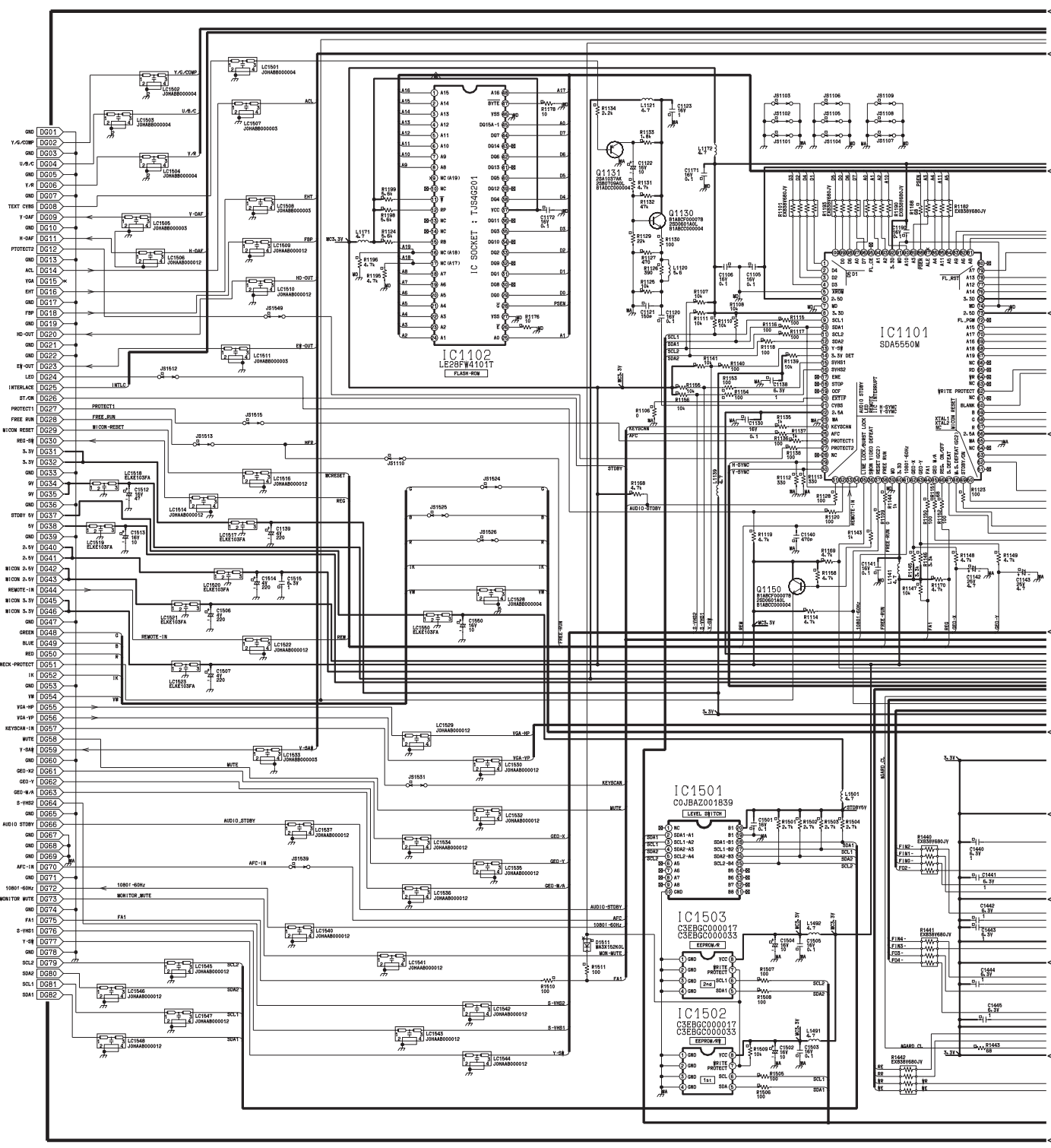
LC4801
L2DA00000006
GEOMAGNETIC SENSOR
NC NC NC NC NC NC NC
GND Vy Vx Vref GND Vcc
12V
R4854 100
R4852 100k
R4851 100k
NP
C4823 16V 10
R4860 8.2k
R4862 8.2k
R4850 100k
C4822 16V 0.01
C4825 16V 56
Vcc
IC4861
AN6562
GND
R4861 2k
Vy-OUT/ADJ
R4856 1k
R4863 2k
Vx-OUT/ADJ
R4857 1k
B
AUTO CANCELLOR2
R4853 100k
C4824 16V 10
Vy TEST PIN
Vx TEST PIN
Vx-out
GND
Vy-out
TPGM1
R4855 100
L4802
EXCELDR35
TSKA038-1
GM
TNP4G118AV
GEOMAGNETIC CIRCUIT
GM1
TO A7
12V
11V
AUTO/MANUAL
MICON Vy
GND
MICON Vx
Vx
Vx TEST PIN
GND


IC1102
LE28FW4101T
FLASH-ROM
IC SOCKET : TJS4Q201
IC1101
SDA5550M
IC1501
C0JBAZ001839
LEVEL SHIFTER
IC1503
C3EBGC000017
C3EBGC000033
EEPROM-M
IC1502
C3EBGC000017
C3EBGC000033
EEPROM-S
Q1131
2SA1037AK
2SC5706QL
Q1130
Q1150
GND DG01
Y/C/COMP DG02
GND DG03
U/B/C DG04
GND DG05
Y/R DG06
GND DG07
TEXT CVBS DG08
Y-DAF DG09
GND DG10
H-DAF DG11
PTOTECT2 DG12
GND DG13
ACL DG14
VGA DG15
EHT DG16
GND DG17
FBP DG18
GND DG19
HD-OUT DG20
GND DG21
GND DG22
EW-OUT DG23
LED DG24
INTERLACE DG25
ST-CN DG26
PROTECT1 DG27
FREE RUN DG28
MICON RESET DG29
REG-SW DG30
3.3V DG31
3.3V DG32
GND DG33
9V DG34
9V DG35
GND DG36
STDBY 5V DG37
5V DG38
GND DG39
2.5V DG40
2.5V DG41
MICON 2.5V DG42
MICON 2.5V DG43
REMOTE-IN DG44
MICON 3.3V DG45
MICON 3.3V DG46
GND DG47
GREEN DG48
BLUE DG49
RED DG50
MECH-PROTECT DG51
IK DG52
GND DG53
YW DG54
VGA-HP DG55
VGA-VP DG56
KEYSCAN-IN DG57
MUTE DG58
Y-SAB DG59
GND DG60
GEO-X2 DG61
GEO-Y DG62
GEO-M/A DG63
S-VHS2 DG64
GND DG65
AUDIO STDBY DG66
GND DG67
GND DG68
GND DG69
AFC-IN DG70
GND DG71
10801-60Hz DG72
MONITOR MUTE DG73
GND DG74
FA1 DG75
S-VHS1 DG76
Y-SB DG77
GND DG78
SCL2 DG79
SDA2 DG80
SCL1 DG81
SDA1 DG82
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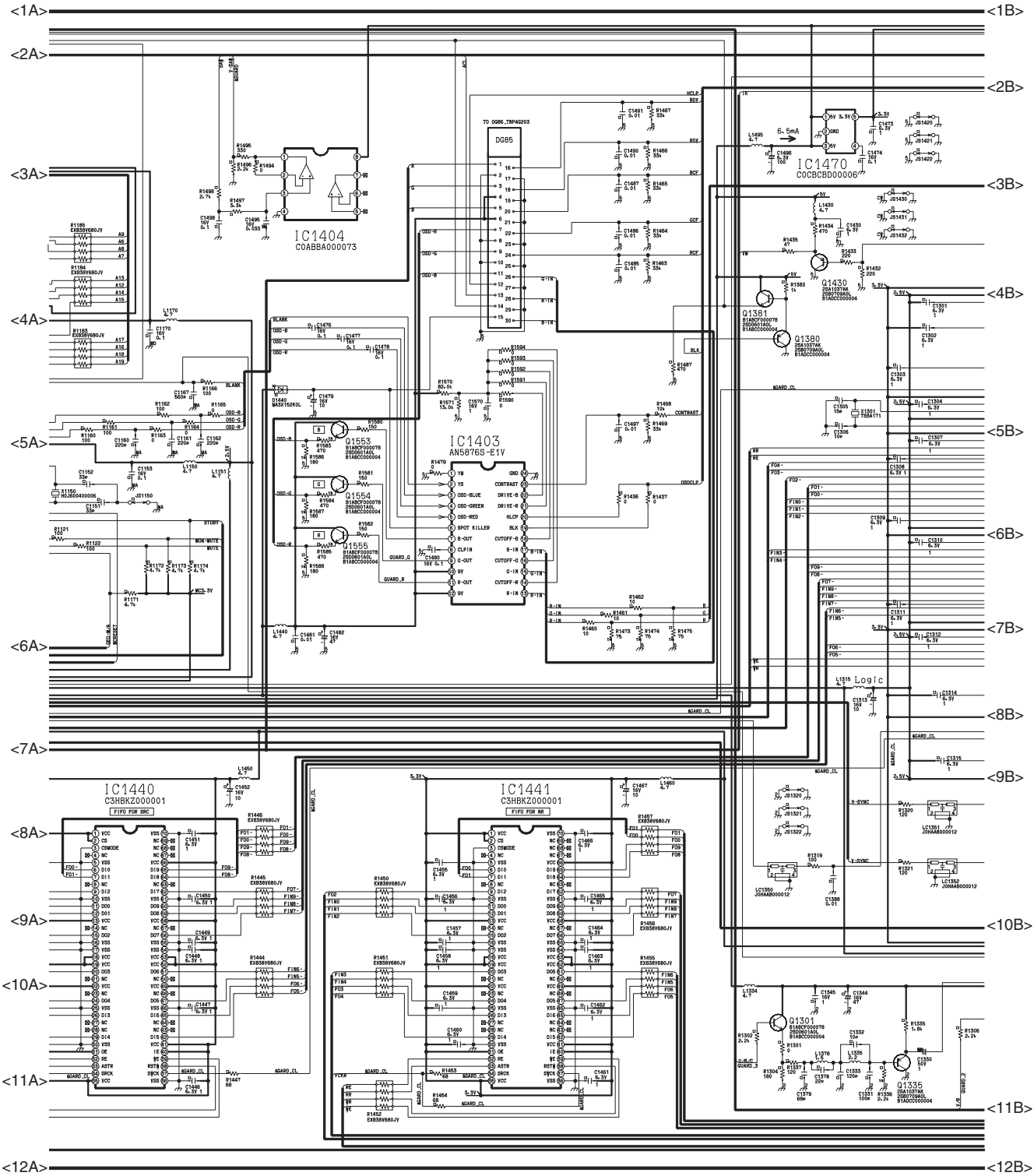
IC1404
C0ABBA000073
IC1403
AN5876S-E1V
IC1470
C0CBCBD00006
IC1440
C3HBKZ000001
FIFO FOR SRC
IC1441
C3HBKZ000001
FIFO FOR NR
Logic
Q1553
Q1554
Q1555
Q1380
Q1381
Q1430
Q1301
Q1335
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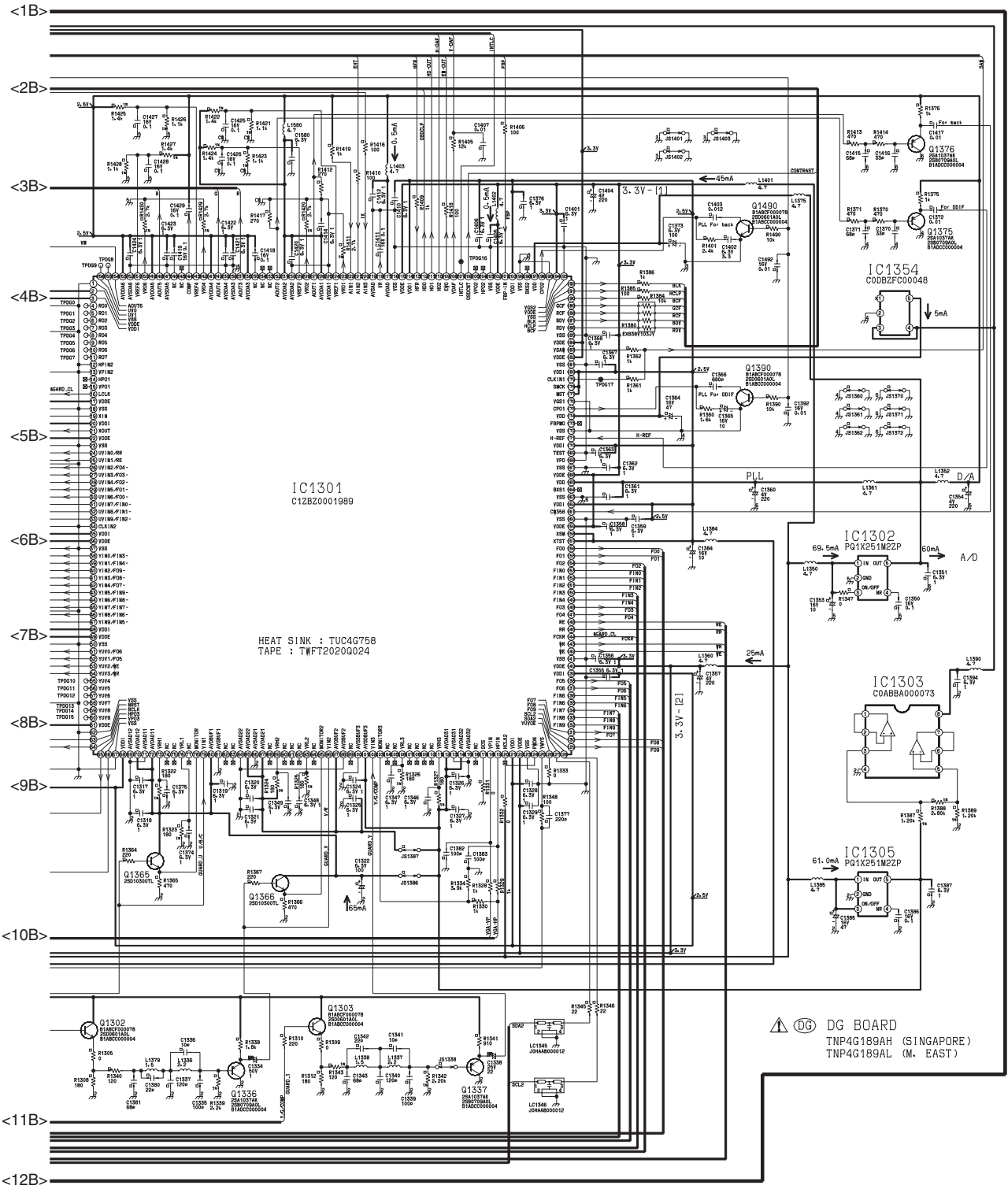
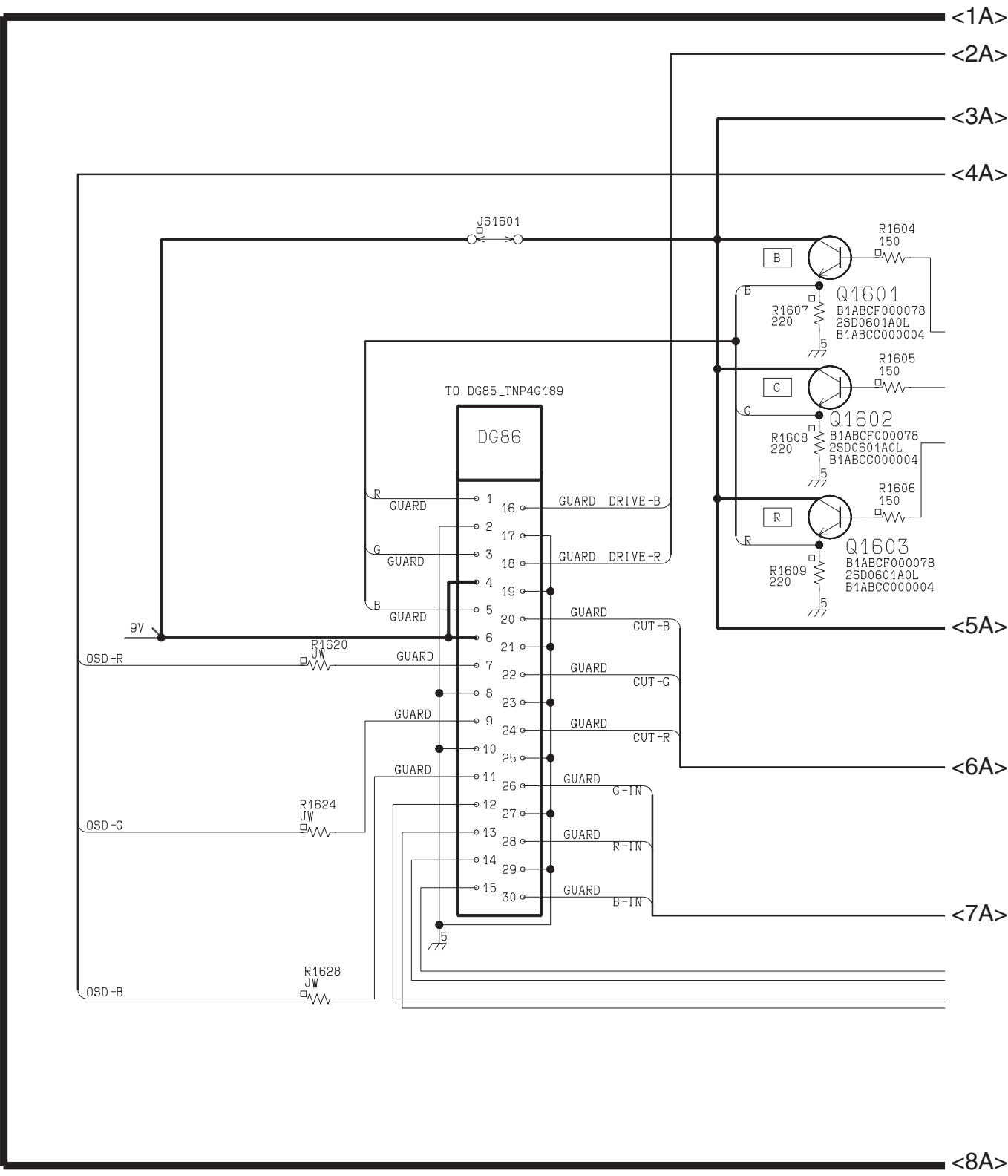

IC1301
C1ZBZ0001989
IC1354
C0DBZFC00048
IC1302
PQ1X251M2ZP
69.5mA
60mA
A/D
IC1303
C0ABBA000073
IC1305
PQ1X251M2ZP
61.0mA
PLL
D/A
3.3V-[1]
3.3V-[2]
45mA
25mA
5mA
65mA
HEAT SINK : TUC4G758
TAPE : TWFT2020G024
DG BOARD
TNP4G189AH (SINGAPORE)
TNP4G189AL (M. EAST)


JS1601
TO DG85_TNP4G189
DG86
R1604
150
Q1601
B1ABCF000078
2SD0601A0L
B1ABCC000004
R1607
220
R1605
150
Q1602
B1ABCF000078
2SD0601A0L
B1ABCC000004
R1608
220
R1606
150
Q1603
B1ABCF000078
2SD0601A0L
B1ABCC000004
R1609
220
9V
R1620
JW
R1624
JW
R1628
JW
OSD-R
OSD-G
OSD-B
GUARD
GUARD DRIVE-B
GUARD DRIVE-R
GUARD CUT-B
GUARD CUT-G
GUARD CUT-R
GUARD G-IN
GUARD R-IN
GUARD B-IN
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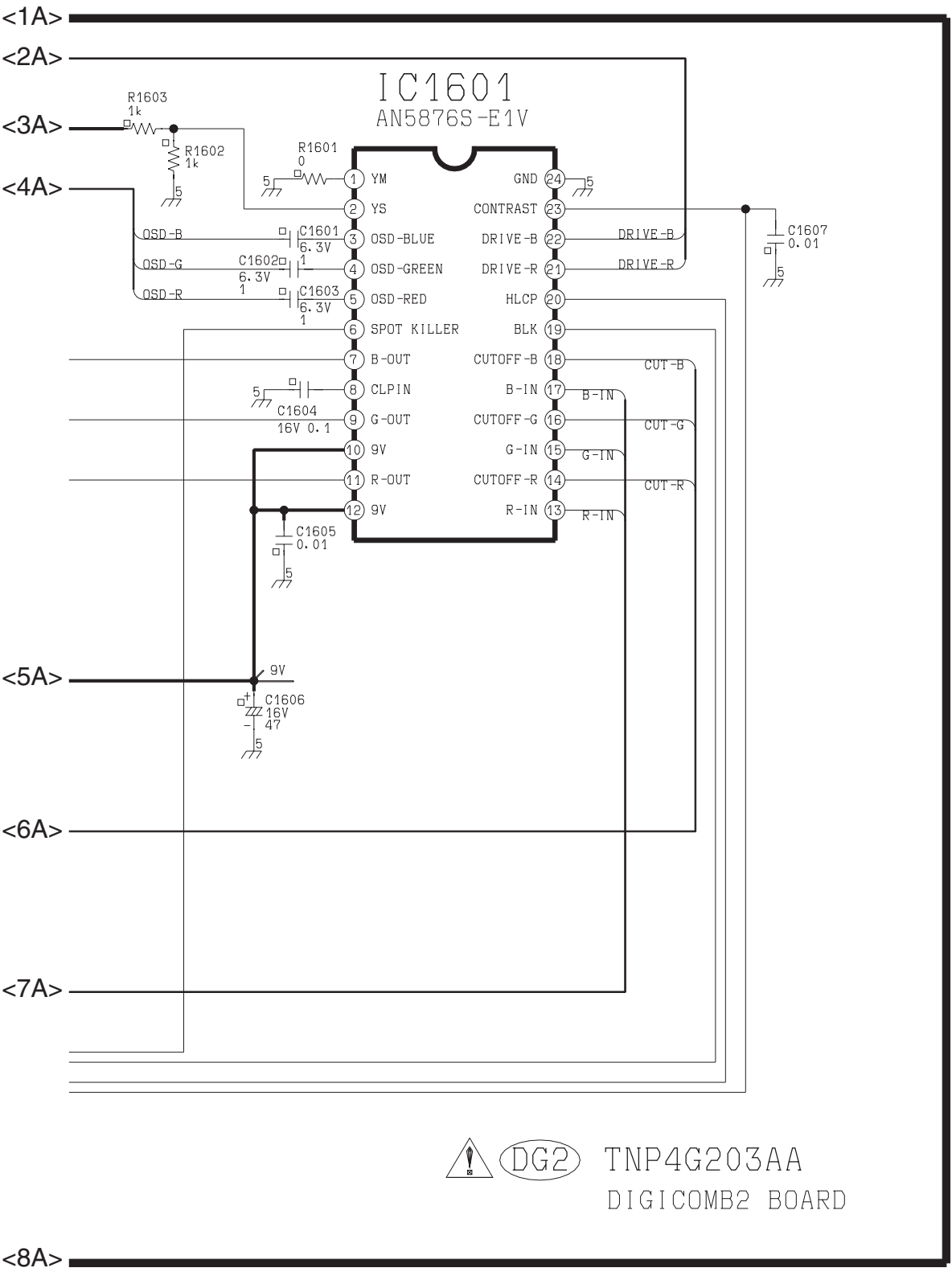
IC1601
AN5876S-E1V
R1603
1k
R1602
1k
R1601
0
1 YM
2 YS
3 OSD-BLUE
4 OSD-GREEN
5 OSD-RED
6 SPOT KILLER
7 B-OUT
8 CLPIN
9 G-OUT
10 9V
11 R-OUT
12 9V
GND 24
CONTRAST 23
DRIVE-B 22
DRIVE-R 21
HLCP 20
BLK 19
CUTOFF-B 18
B-IN 17
CUTOFF-G 16
G-IN 15
CUTOFF-R 14
R-IN 13
OSD-B
OSD-G
OSD-R
C1601 6.3V 1
C1602 6.3V 1
C1603 6.3V 1
C1604 16V 0.1
C1605 0.01
C1606 16V 47
C1607 0.01
9V
DRIVE-B
DRIVE-R
CUT-B
CUT-G
CUT-R
B-IN
G-IN
R-IN
<1A>
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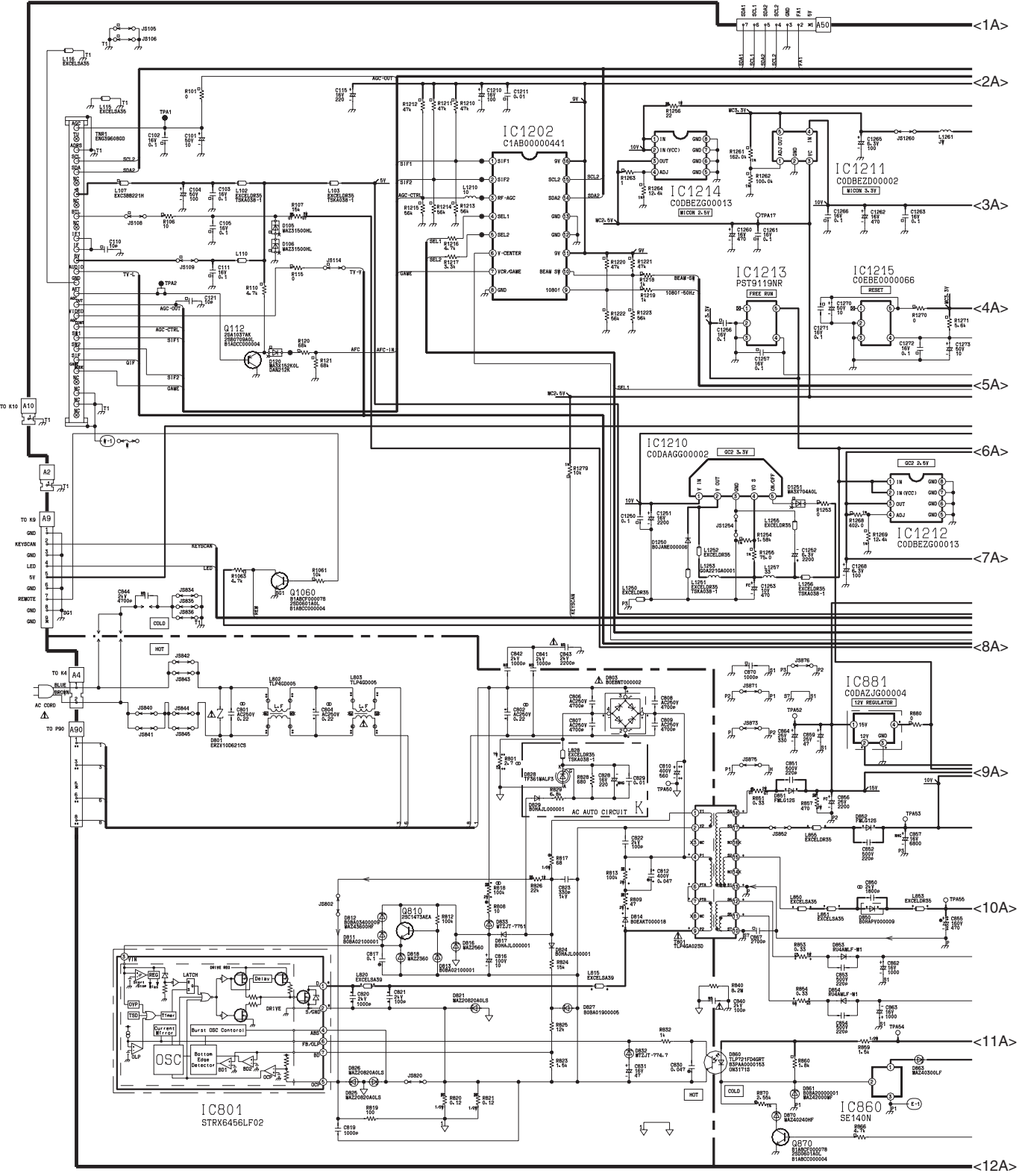
DG2
TNP4G203AA
DIGICOMB2 BOARD


IC1202
C1AB00000441
IC1214
C0DBEZG00013
IC1211
C0DBEZD00002
IC1213
PST9119NR
IC1215
C0EBE0000066
IC1210
C0DAAGG00002
IC1212
C0DBEZG00013
IC881
C0DAZJG00004
IC801
STRX6456LF02
IC860
SE140N
Q112
Q1060
Q810
Q870
AC AUTO CIRCUIT
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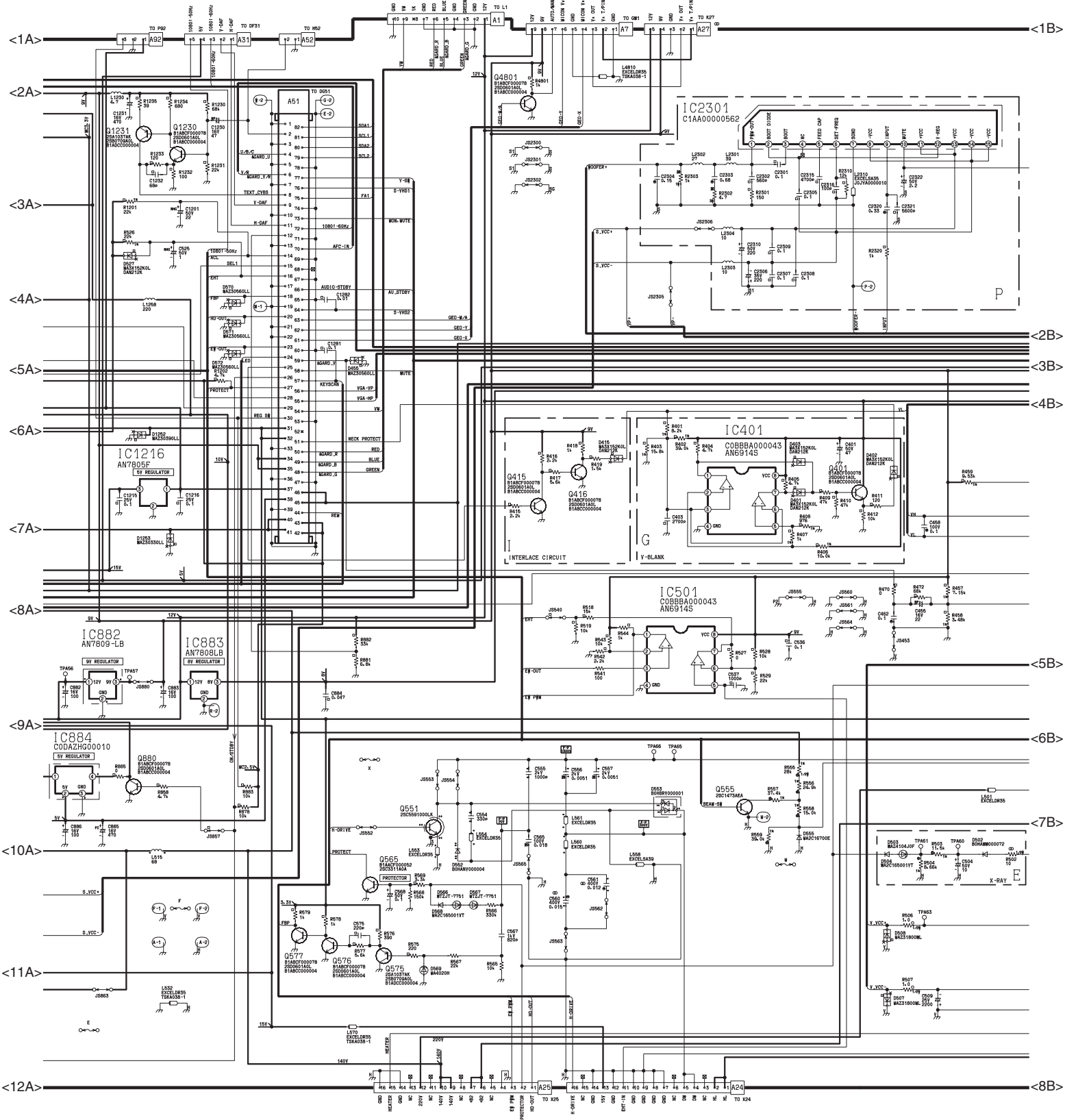
IC2301
C1AA00000562
IC401
C0BBBA000043
AN6914S
IC501
C0BBBA000043
AN6914S
IC1216
AN7805F
5V REGULATOR
IC882
AN7809-LB
9V REGULATOR
IC883
AN7808LB
8V REGULATOR
IC884
C0DA2HG00010
5V REGULATOR
INTERLACE CIRCUIT
V-BLANK
X-RAY
TO A92
TO A31
TO A52
TO DF31
TO A51
TO DG51
TO A1
TO L1
TO GM1
TO A7
TO A27
TO X25
TO X24
<1A>
<1B>
<2A>
<2B>
<3A>
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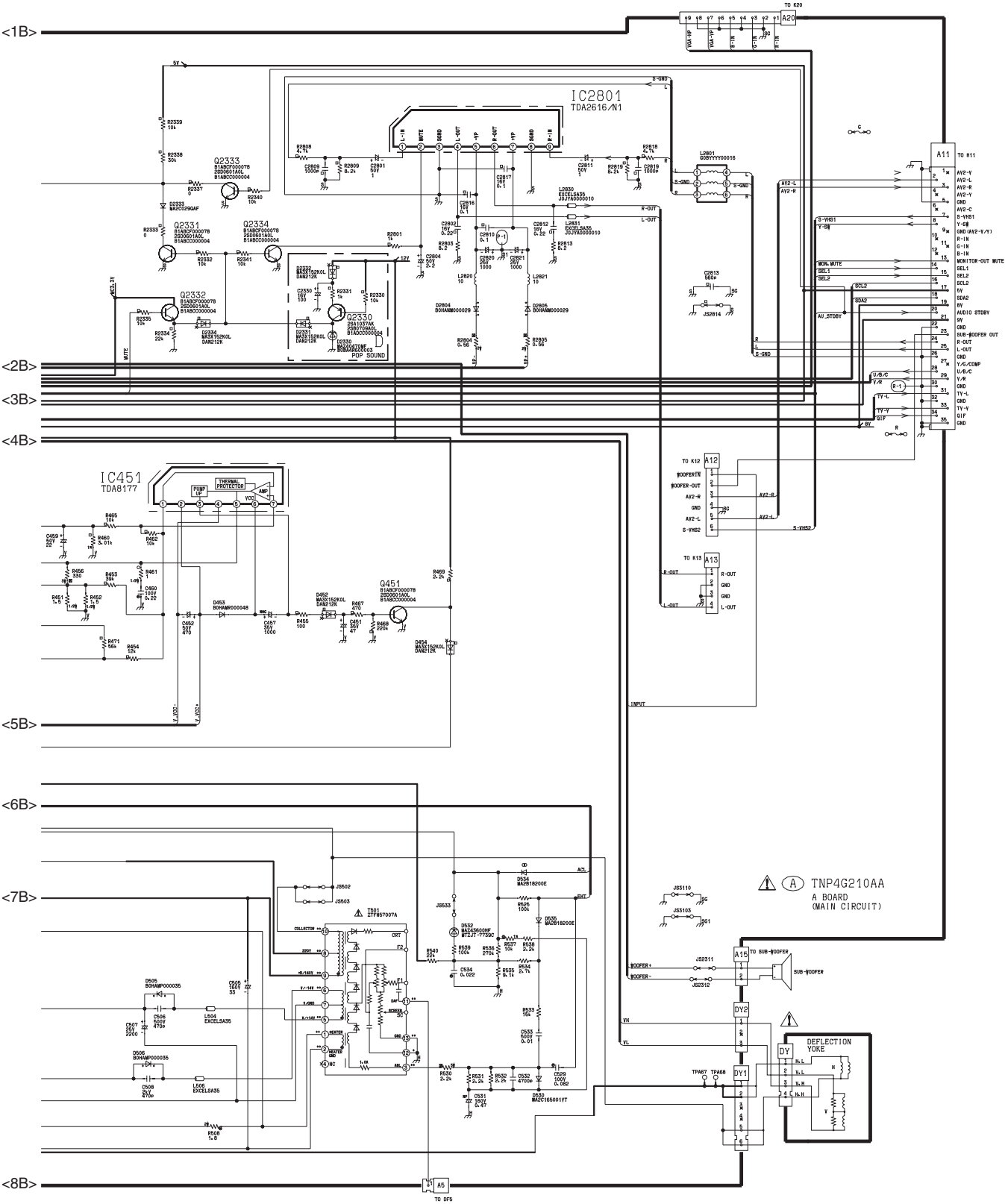
TO K20
A20
IC2801
TDA2616/N1
Q2333
Q2331
Q2334
Q2332
Q2330
POP SOUND
A11
TO H11
MONITOR-OUT MUTE
AV STDBY
IC451
TDA8177
THERMAL PROTECTOR
PUMP UP
Q451
TO K12
A12
TO K13
A13
INPUT
<1B>
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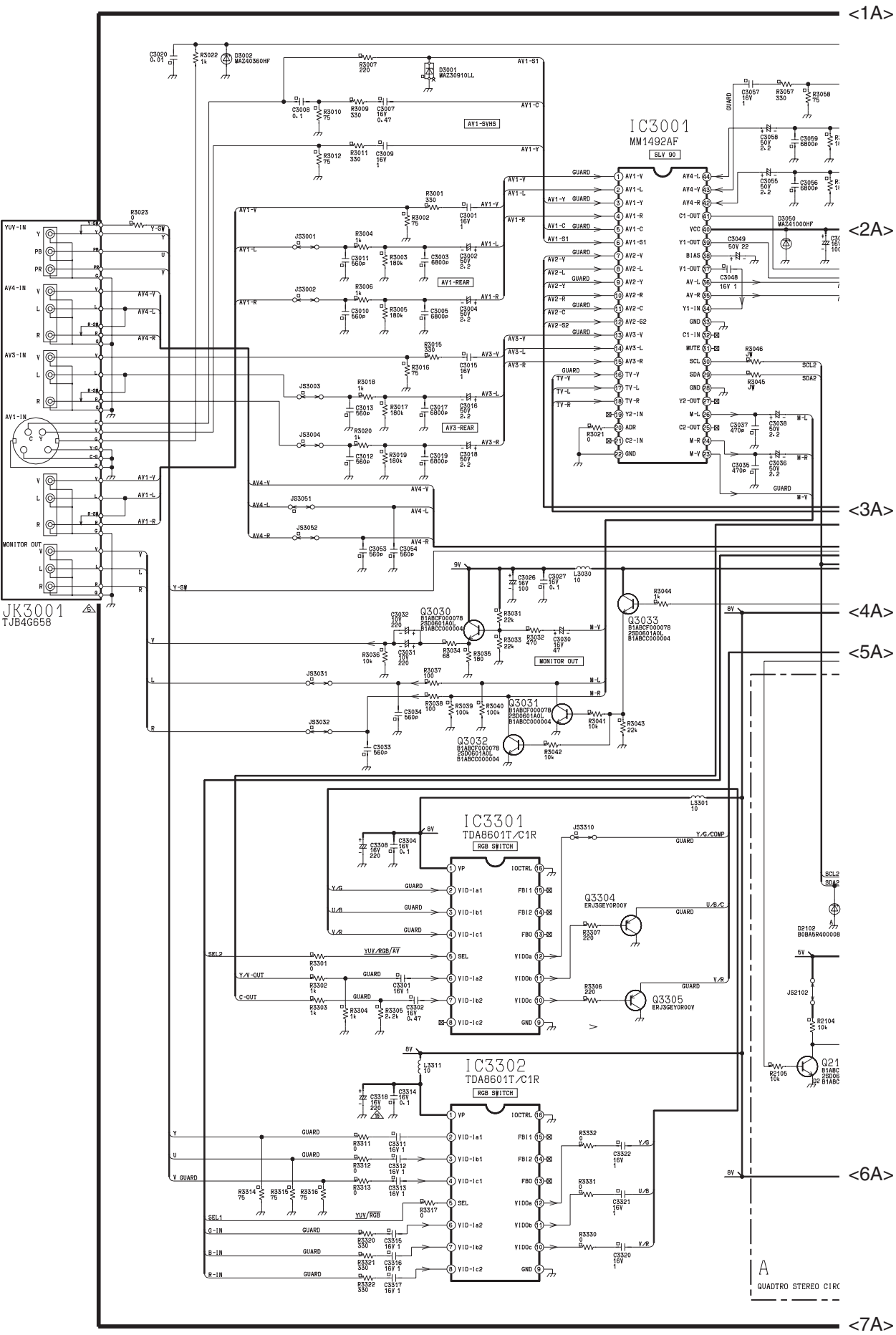
<4B>
<5B>
<6B>
<7B>
<8B>
TO DF5
TO SUB-WOOFER
SUB-WOOFER
A15
DY2
DY1
DY
DEFLECTION YOKE
A BOARD
(MAIN CIRCUIT)
TNP4G210AA


IC3001
MM1492AF
SLV 90
IC3301
TDA8601T/C1R
RGB SWITCH
IC3302
TDA8601T/C1R
RGB SWITCH
JK3001
TJB4G658
Q3030
Q3031
Q3032
Q3033
Q3304
Q3305
AV1-SVHS
AV1-REAR
AV3-REAR
MONITOR OUT
QUADTRO STEREO CIRC
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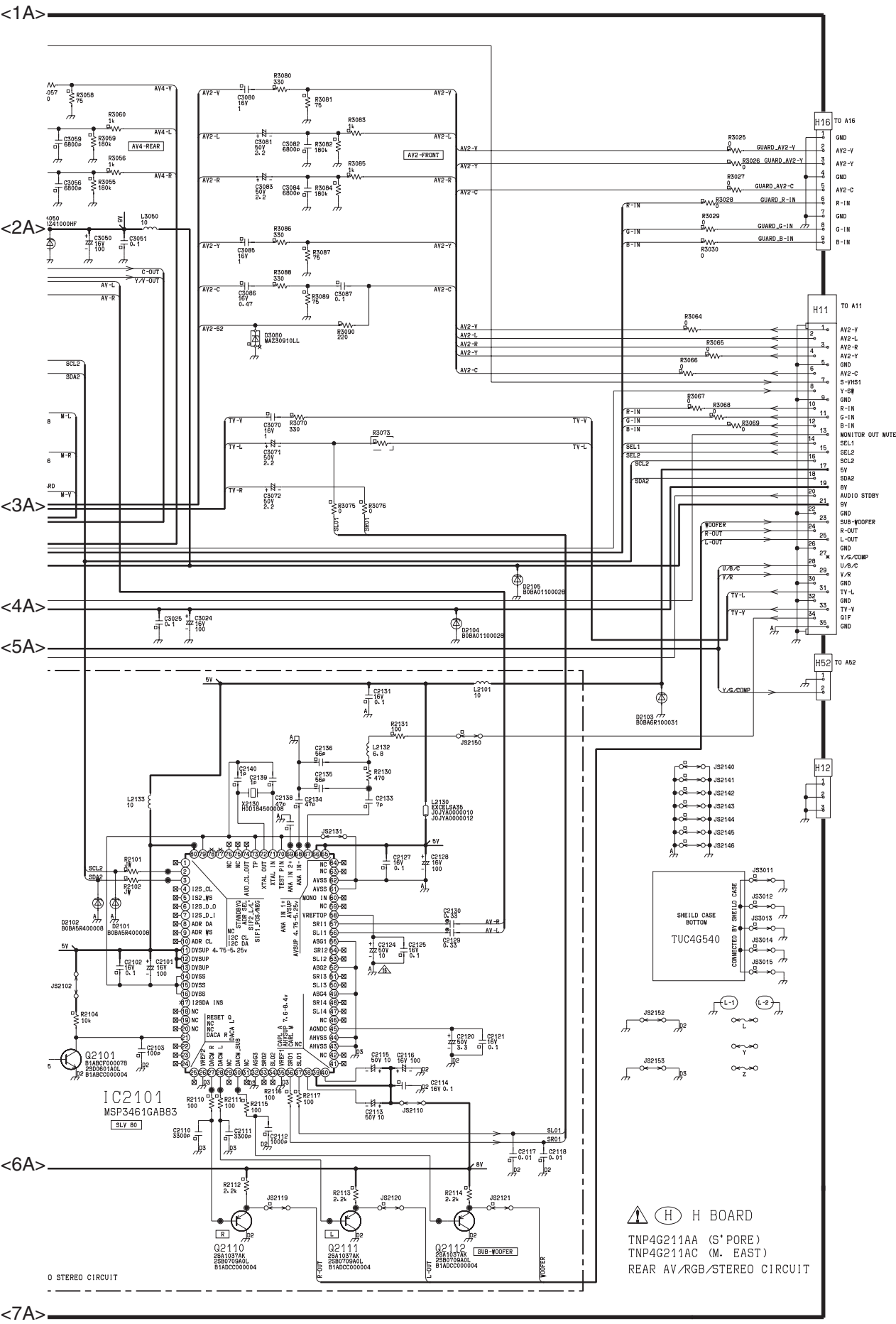
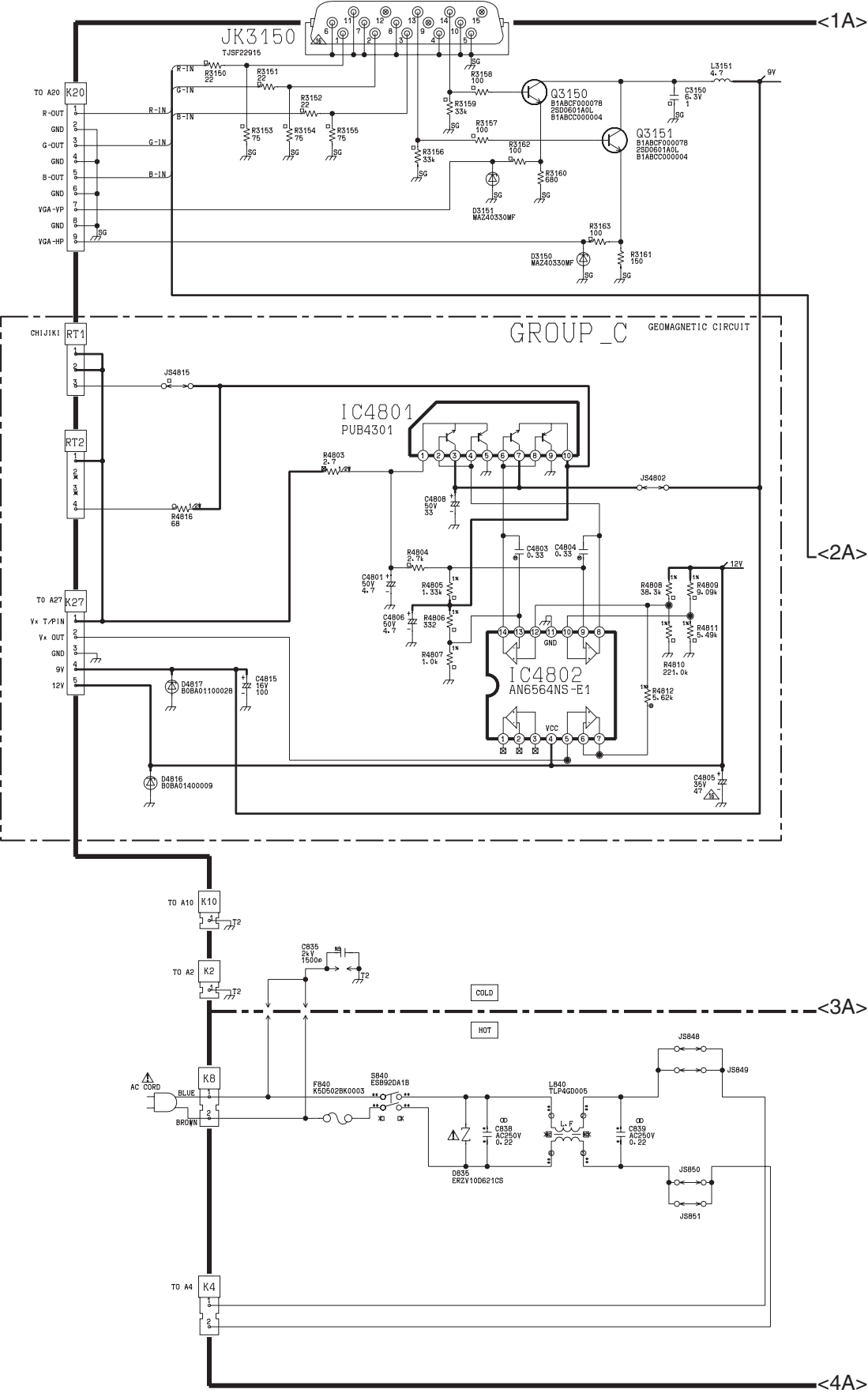

H16
TO A16
GND
AV2-Y
AV2-Y
GND
AV2-C
R-IN
GND
G-IN
B-IN
GUARD_AV2-Y
GUARD_AV2-Y
GUARD_AV2-C
GUARD_R-IN
GUARD_G-IN
GUARD_B-IN
H11
TO A11
AV2-Y
AV2-L
AV2-R
AV2-Y
GND
AV2-C
S-YHS1
Y-SW
GND
R-IN
G-IN
B-IN
MONITOR OUT MUTE
SEL1
SEL2
SCL2
5V
SDA2
8V
AUDIO STDBY
9V
GND
SUB-WOOFER
R-OUT
L-OUT
GND
Y/G/COMP
U/B/C
V/R
GND
TY-L
GND
TY-V
GIF
GND
H52
TO A52
Y/G/COMP
H12
JS2140
JS2141
JS2142
JS2143
JS2144
JS2145
JS2146
JS3011
JS3012
JS3013
JS3014
JS3015
SHEILD CASE BOTTOM
TUC4G540
CONNECTED BY SHEILD CASE
L-1
L-2
JS2152
JS2153
L
Y
Z
IC2101
MSP3461GAB83
SLY 80
Q2101
Q2110
Q2111
Q2112
SUB-WOOFER
H H BOARD
TNP4G211AA (S'PORE)
TNP4G211AC (M. EAST)
REAR AV/RGB/STEREO CIRCUIT
O STEREO CIRCUIT


JK3150
TJSF22915
TO A20
K20
R-OUT
GND
G-OUT
GND
B-OUT
GND
VGA-VP
GND
VGA-HP
R-IN
G-IN
B-IN
R3150 22
R3151 22
R3152 22
R3153 75
R3154 75
R3155 75
R3156 33k
R3157 100
R3158 100
R3159 33k
R3160 680
R3161 150
R3162 100
R3163 100
Q3150
B1ABCF000078
2SD0601A0L
B1ABCC000004
Q3151
B1ABCF000078
2SD0601A0L
B1ABCC000004
D3151
MAZ40330MF
D3150
MAZ40330MF
C3150 6.3V 1
L3151 4.7
9V
SG
<1A>
<2A>
GROUP_C
GEOMAGNETIC CIRCUIT
CHIJIKI
RT1
RT2
JS4815
IC4801
PUB4301
R4803 2.7
R4816 68
JS4802
C4808 50V 33
C4803 0.33
C4804 0.33
R4804 2.7k
C4801 50V 4.7
R4805 1.33k
C4806 50V 4.7
R4806 332
R4807 1.0k
12V
R4808 38.3k
R4809 9.09k
R4811 5.49k
R4810 221.0k
R4812 6.62k
IC4802
AN6564NS-E1
GND
VCC
TO A27
K27
Vx T/PIN
Vx OUT
GND
9V
12V
D4817
B0BA0110002B
C4815 16V 100
D4816
B0BA01400009
C4805 35V 47
<3A>
TO A10
K10
TO A2
K2
T2
C835 25V 1500p
COLD
HOT
K8
AC CORD
BLUE
BROWN
F840
K5D502BK0003
S840
ESB92DA1B
L840
TLP4GD005
L
F
C838 AC250V 0.22
C839 AC250V 0.22
D836
ERZV10D621CS
JS848
JS849
JS850
JS851
TO A4
K4
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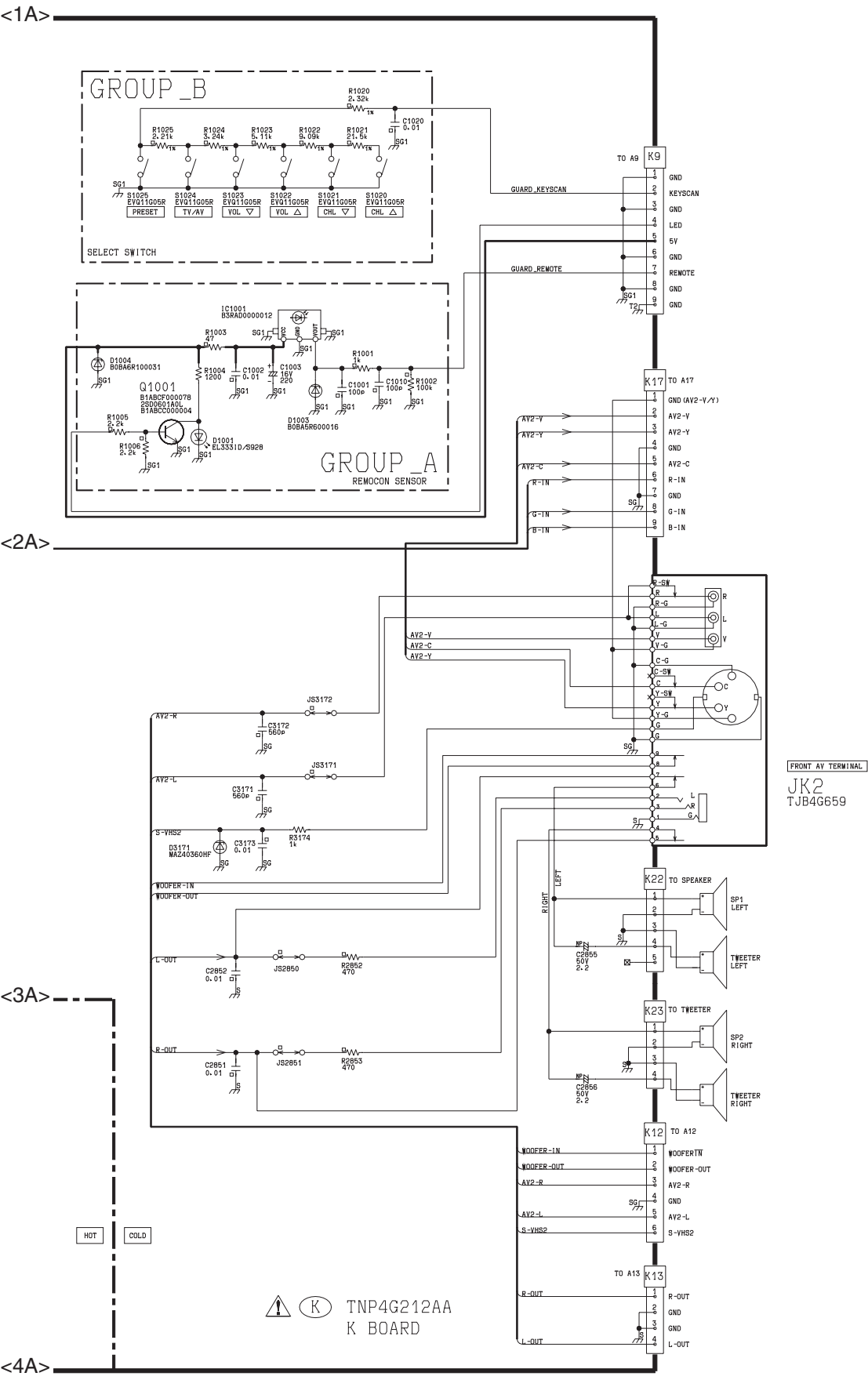
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GROUP _B
R1020 2.32k 1%
C1020 0.01
R1025 2.21k 1%
R1024 3.24k 1%
R1023 5.11k 1%
R1022 9.09k 1%
R1021 21.5k 1%
SG1
S1025 EVQ11G05R PRESET
S1024 EVQ11G05R TV/AV
S1023 EVQ11G05R VOL ▽
S1022 EVQ11G05R VOL △
S1021 EVQ11G05R CHL ▽
S1020 EVQ11G05R CHL △
SELECT SWITCH
IC1001 B3RAD0000012
R1003 47
D1004 B0BA6R100031
R1004 1200
C1002 0.01
C1003 16V 220
R1001 1k
C1001 100p
C1010 100p
R1002 100k
Q1001 B1ABCF000078 2SD0601A0L B1ABCC000004
D1003 B0BA5R600016
R1005 2.2k
R1006 2.2k
D1001 EL3331D/S928
GROUP _A
REMOCON SENSOR
TO A9
K9
GUARD_KEYSCAN
GUARD_REMOTE
GND
KEYSCAN
GND
LED
5V
GND
REMOTE
GND
GND
T2
K17
TO A17
GND (AV2-Y/Y)
AV2-V
AV2-Y
GND
AV2-C
R-IN
GND
G-IN
B-IN
<2A>
S-SW
B
B-G
L
L-G
V
V-G
C-G
C-SW
C
Y-SW
Y
Y-G
G
R
L
V
C
Y
JS3172
AV2-R
C3172 560p
JS3171
AV2-L
C3171 560p
S-VHS2
D3171 MAZ40360HF
C3173 0.01
R3174 1k
WOOFER-IN
WOOFER-OUT
L-OUT
C2852 0.01
JS2850
R2852 470
R-OUT
C2851 0.01
JS2851
R2853 470
FRONT AV TERMINAL
JK2
TJB4G659
K22
TO SPEAKER
SP1 LEFT
TWEETER LEFT
C2855 50V 2.2
K23
TO TWEETER
SP2 RIGHT
TWEETER RIGHT
C2856 50V 2.2
K12
TO A12
WOOFER-IN
WOOFER-OUT
AV2-R
GND
AV2-L
S-VHS2
TO A13
K13
R-OUT
GND
GND
L-OUT
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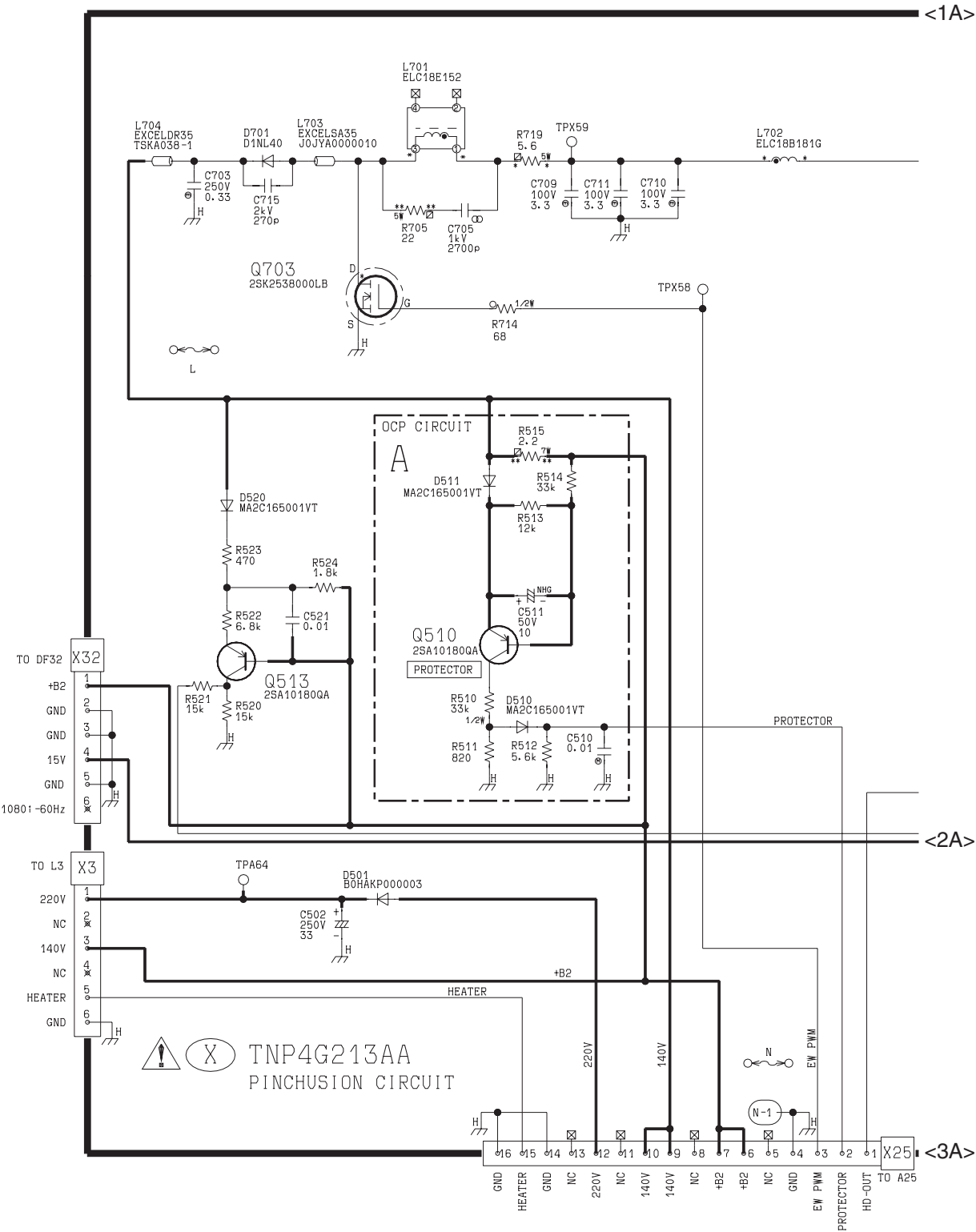
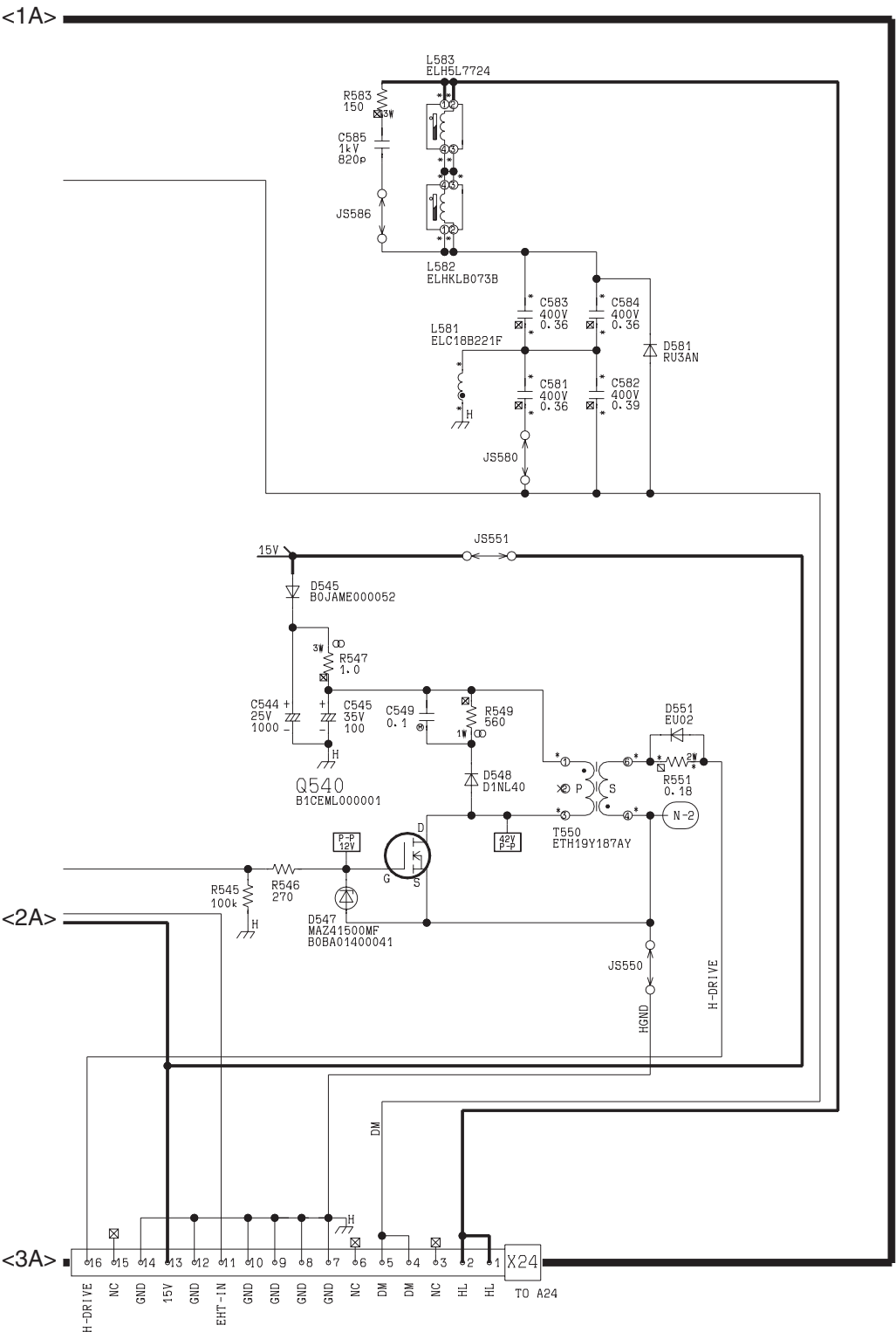
HOT
COLD
TNP4G212AA
K BOARD
<4A>


<1A>
L701
ELC18E152
L704
EXCELDR35
TSKA038-1
D701
D1NL40
L703
EXCELSA35
J0JYA0000010
R719
5.6
TPX59
L702
ELC18B181G
C703
250V
0.33
C715
2kV
270p
R705
22
C705
1kV
2700p
C709
100V
3.3
C711
100V
3.3
C710
100V
3.3
Q703
2SK2538000LB
D
G
S
TPX58
R714
68
L
OCP CIRCUIT
A
R515
2.2
D511
MA2C165001VT
R514
33k
R513
12k
D520
MA2C165001VT
R523
470
R524
1.8k
R522
6.8k
C521
0.01
NHG
C511
50V
10
Q510
2SA10180QA
PROTECTOR
Q513
2SA10180QA
R521
15k
R520
15k
R510
33k
D510
MA2C165001VT
R511
820
R512
5.6k
C510
0.01
PROTECTOR
TO DF32
X32
+B2
GND
GND
15V
GND
1080i-60Hz
<2A>
TO L3
X3
TPA64
D501
B0HAKP000003
C502
250V
33
220V
NC
140V
NC
HEATER
GND
+B2
HEATER
X
TNP4G213AA
PINCHUSION CIRCUIT
220V
140V
N
N-1
EW PWM
<3A>
X25
TO A25
GND
HEATER
GND
NC
220V
NC
140V
140V
NC
+B2
+B2
NC
GND
EW PWM
PROTECTOR
HD-OUT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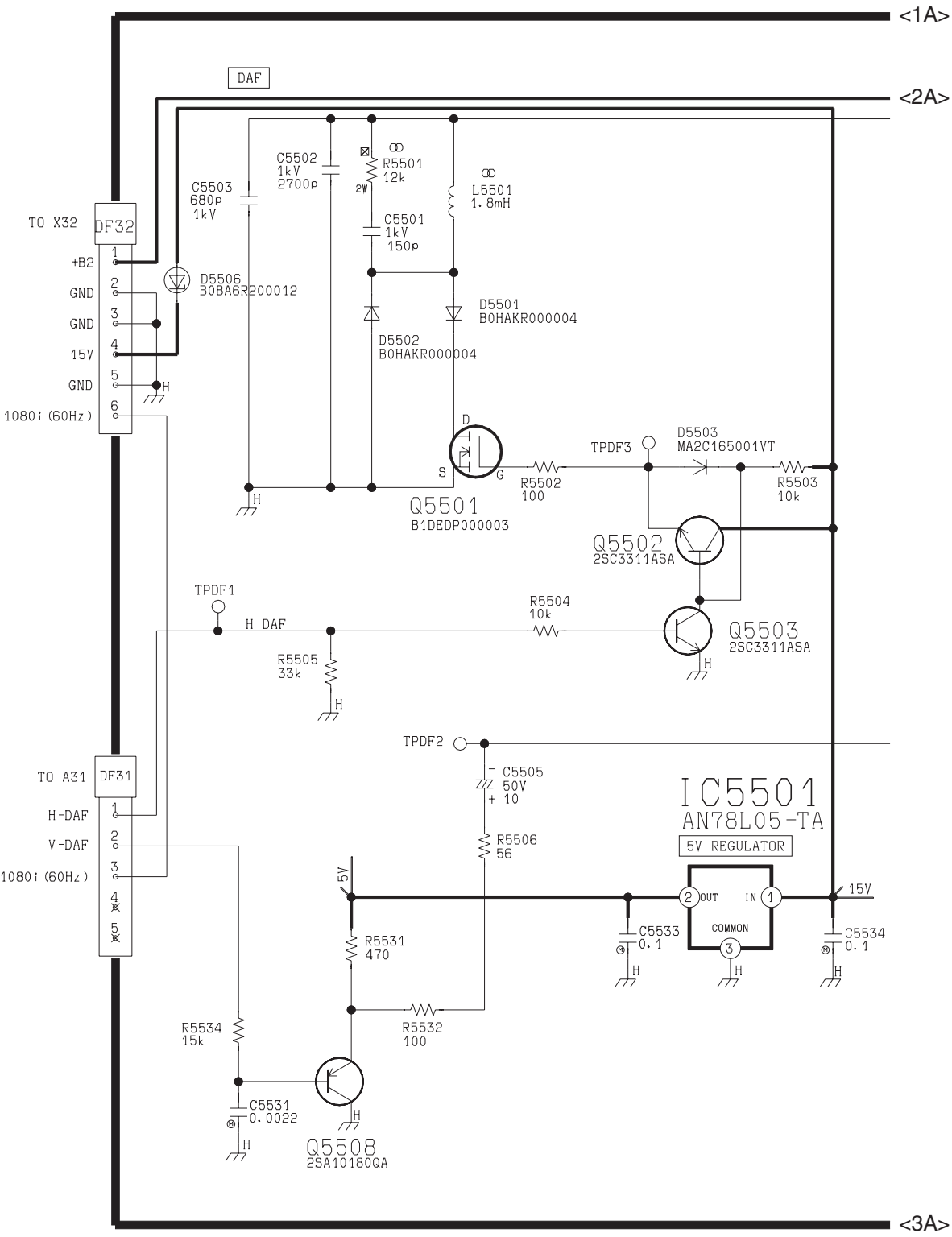
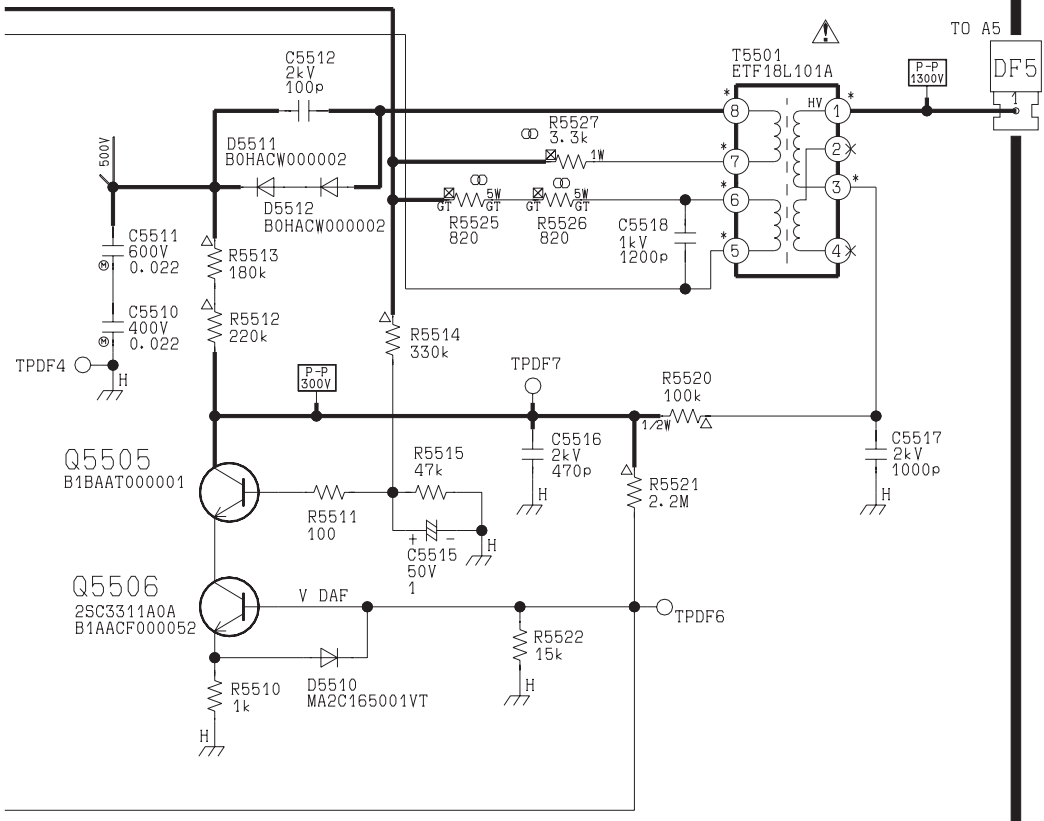
L583
ELH5L7724
R583
150
3W
C585
1kV
820p
JS586
L582
ELHKLB073B
C583
400V
0.36
C584
400V
0.36
L581
ELC18B221F
D581
RU3AN
C581
400V
0.36
C582
400V
0.39
H
JS580
JS551
15V
D545
B0JAME000052
3W
R547
1.0
C544 +
25V
1000 -
C545
35V
100
C549
0.1
R549
560
1W
D551
EU02
2W
R551
0.18
Q540
B1CEML000001
D548
D1NL40
P
S
N-2
T550
ETH19Y187AY
P-P
12V
42V
P-P
D
G
S
R545
100k
R546
270
D547
MAZ41500MF
B0BA01400041
<2A>
JS550
HGND
H-DRIVE
DM
<3A>
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
X24
TO A24
H-DRIVE
NC
GND
15V
GND
EHT-IN
GND
GND
GND
GND
NC
DM
DM
NC
HL
HL


<1A>
DAF
<2A>
TO X32
DF32
+B2
GND
GND
15V
GND
1080i (60Hz)
C5503
680p
1kV
C5502
1kV
2700p
R5501
12k
2W
C5501
1kV
150p
L5501
1.8mH
D5506
B0BA6R200012
D5501
B0HAKR000004
D5502
B0HAKR000004
Q5501
B1DEDP000003
R5502
100
TPDF3
D5503
MA2C165001VT
R5503
10k
Q5502
2SC3311ASA
TPDF1
H DAF
R5504
10k
Q5503
2SC3311ASA
R5505
33k
TPDF2
TO A31
DF31
H-DAF
V-DAF
1080i (60Hz)
C5505
50V
10
R5506
56
IC5501
AN78L05-TA
5V REGULATOR
5V
OUT
IN
COMMON
15V
C5533
0.1
C5534
0.1
R5531
470
R5532
100
R5534
15k
C5531
0.0022
Q5508
2SA1018OQA
<3A>

<1A>

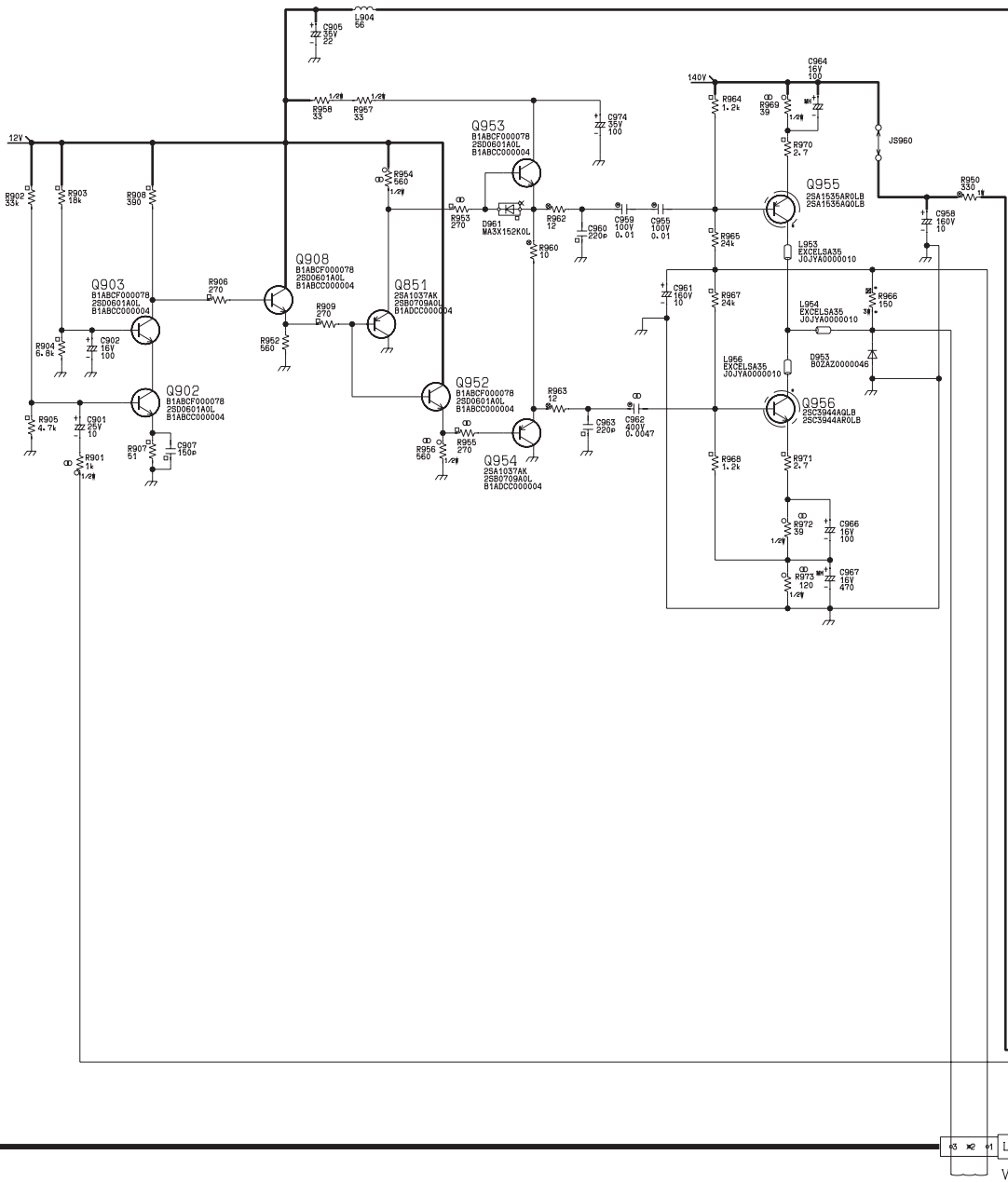
<2A>

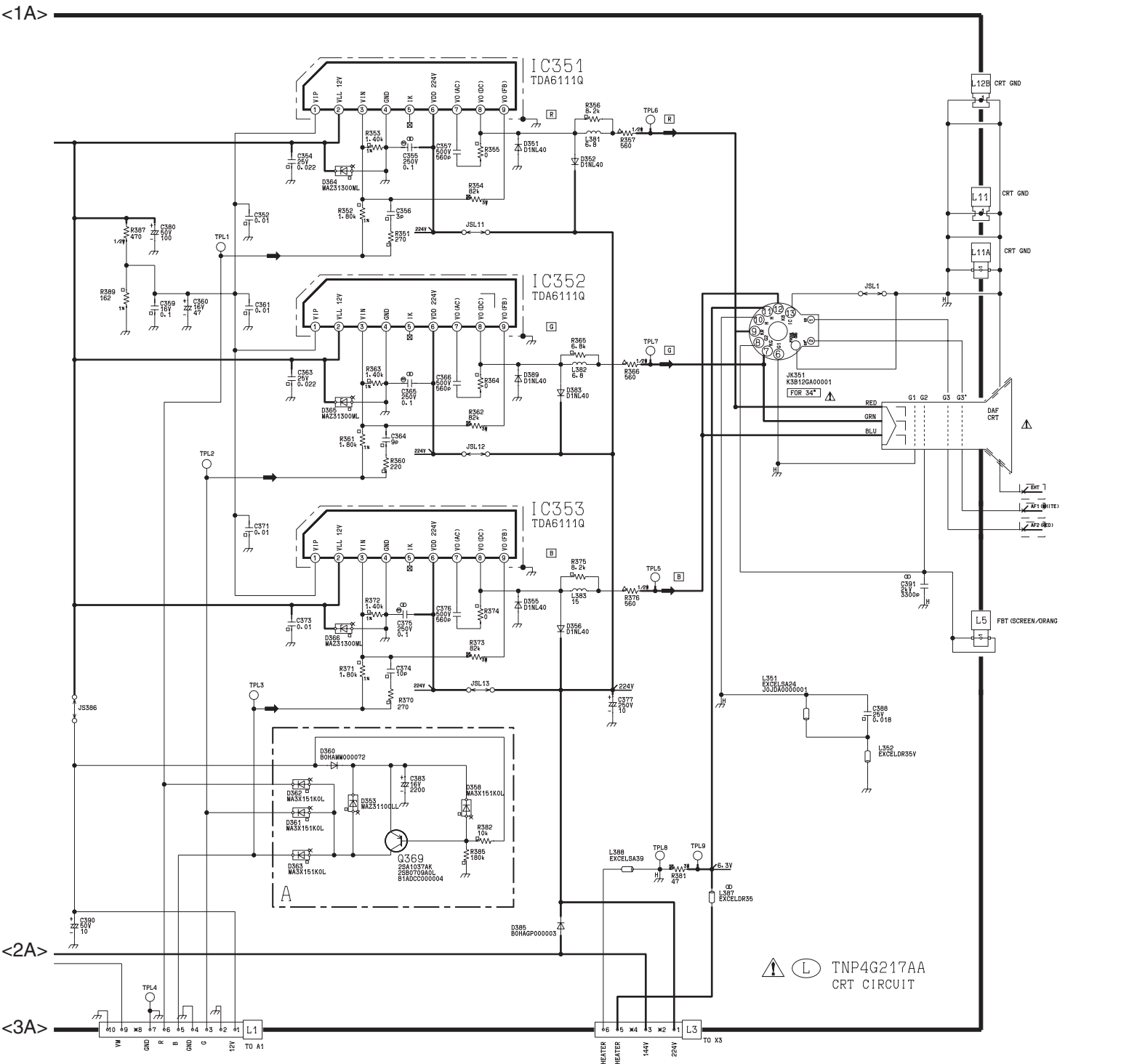


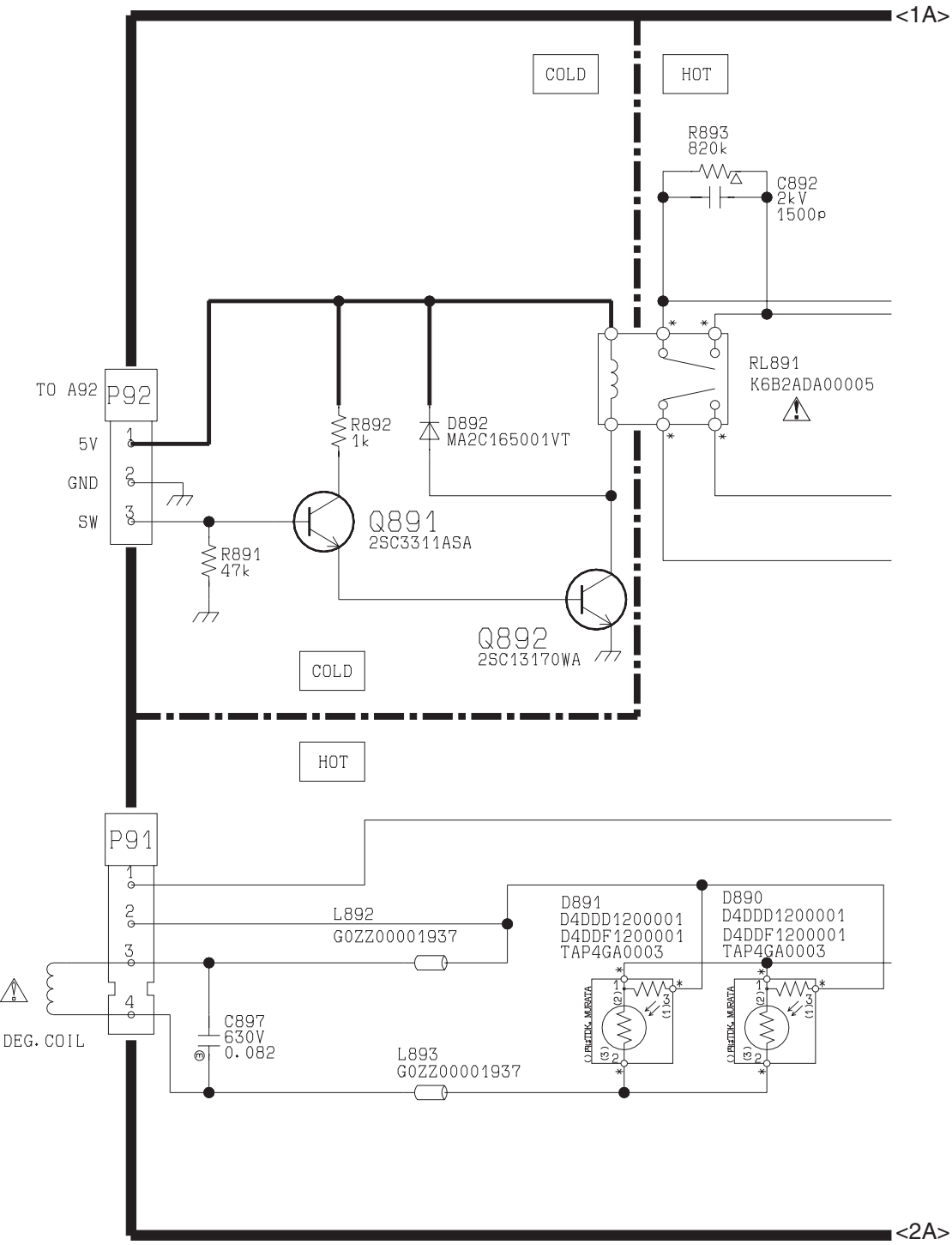
DF TNP4G214AA

DAF CIRCUIT

<3A>


12V
140V
L904
56
C905
35V
22
R958
33
R957
33
C974
35V
100
C964
16V
100
R964
1.2k
R969
39
R970
2.7
JS960
R950
330
C958
160V
10
Q953
B1ABCF000078
2SD0601A0L
B1ABCC000004
Q955
2SA1536AR0LB
2SA1535AQ0LB
R954
560
R953
270
D961
MA3X152K0L
R962
12
C960
220p
C959
100V
0.01
C956
100V
0.01
R960
10
R965
24k
L953
EXCELSA35
J0JYA0000010
C961
160V
10
R967
24k
L954
EXCELSA35
J0JYA0000010
R966
150
L956
EXCELSA35
J0JYA0000010
D953
B0ZAZ0000046
Q903
B1ABCF000078
2SD0601A0L
B1ABCC000004
R906
270
Q908
B1ABCF000078
2SD0601A0L
B1ABCC000004
Q851
2SA1037AK
2SB0709A0L
B1ADCC000004
R909
270
R902
33k
R903
18k
R908
390
R904
6.8k
C902
16V
100
R952
560
Q902
B1ABCF000078
2SD0601A0L
B1ABCC000004
R905
4.7k
C901
25V
10
R901
1k
R907
51
C907
150p
Q952
B1ABCF000078
2SD0601A0L
B1ABCC000004
R963
12
C963
220p
C962
400V
0.0047
Q954
2SA1037AK
2SB0709A0L
B1ADCC000004
R956
560
R955
270
Q956
2SC3944AQLB
2SC3944AR0LB
R968
1.2k
R971
2.7
R972
39
C966
16V
100
R973
120
C967
16V
470
<1A>
<2A>
<3A>
L2
VMコイル


<1A>
IC351
TDA6111Q
IC352
TDA6111Q
IC353
TDA6111Q
R
G
B
TPL1
TPL2
TPL3
TPL4
TPL5
TPL6
TPL7
TPL8
TPL9
JSL1
JSL11
JSL12
JSL13
JS386
L12B CRT GND
L11 CRT GND
L11A CRT GND
L5 FBT (SCREEN/ORANG
JK351
K3B12GA00001
FOR 34"
RED
GRN
BLU
G1 G2 G3 G3*
DAF
CRT
EHT
AF1 (WHITE)
AF2 (RED)
L351
EXCELSA24
JOJDA0000001
L352
EXCELDR35V
L387
EXCELDR36
L388
EXCELSA39
D385
B0HAGP000003
D360
B0HAMM000072
Q369
2SA1037AK
2SB0709A0L
B1ADCC000004
A
TNP4G217AA
CRT CIRCUIT
<2A>
<3A>
L1
TO A1
L3
TO X3
VM
GND
R
B
GND
G
12V
HEATER
HEATER
144V
224V


<1A>
COLD
HOT
R893
820k
C892
2kV
1500p
RL891
K6B2ADA00005
TO A92
P92
5V
GND
SW
1
2
3
R892
1k
D892
MA2C165001VT
Q891
2SC3311ASA
R891
47k
Q892
2SC13170WA
COLD
HOT
P91
1
2
3
4
L892
G0ZZ00001937
D891
D4DDD1200001
D4DDF1200001
TAP4GA0003
D890
D4DDD1200001
D4DDF1200001
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DEG. COIL
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630V
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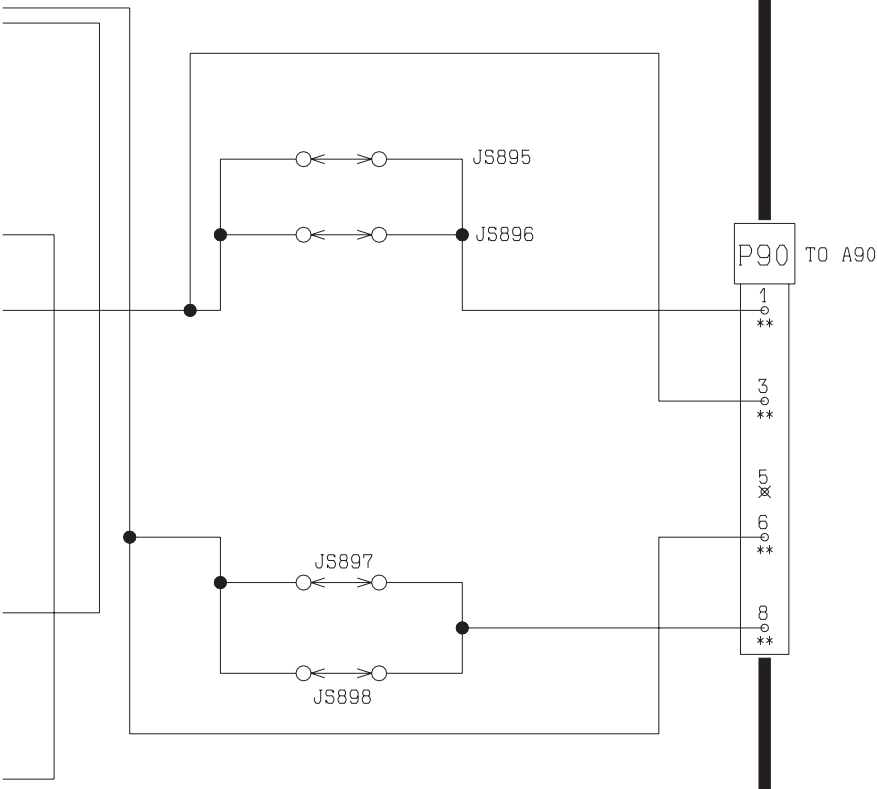


P

TNP4G235AA

P BOARD
HARMONIC CIRCUIT

<2A>

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
Type Allowance

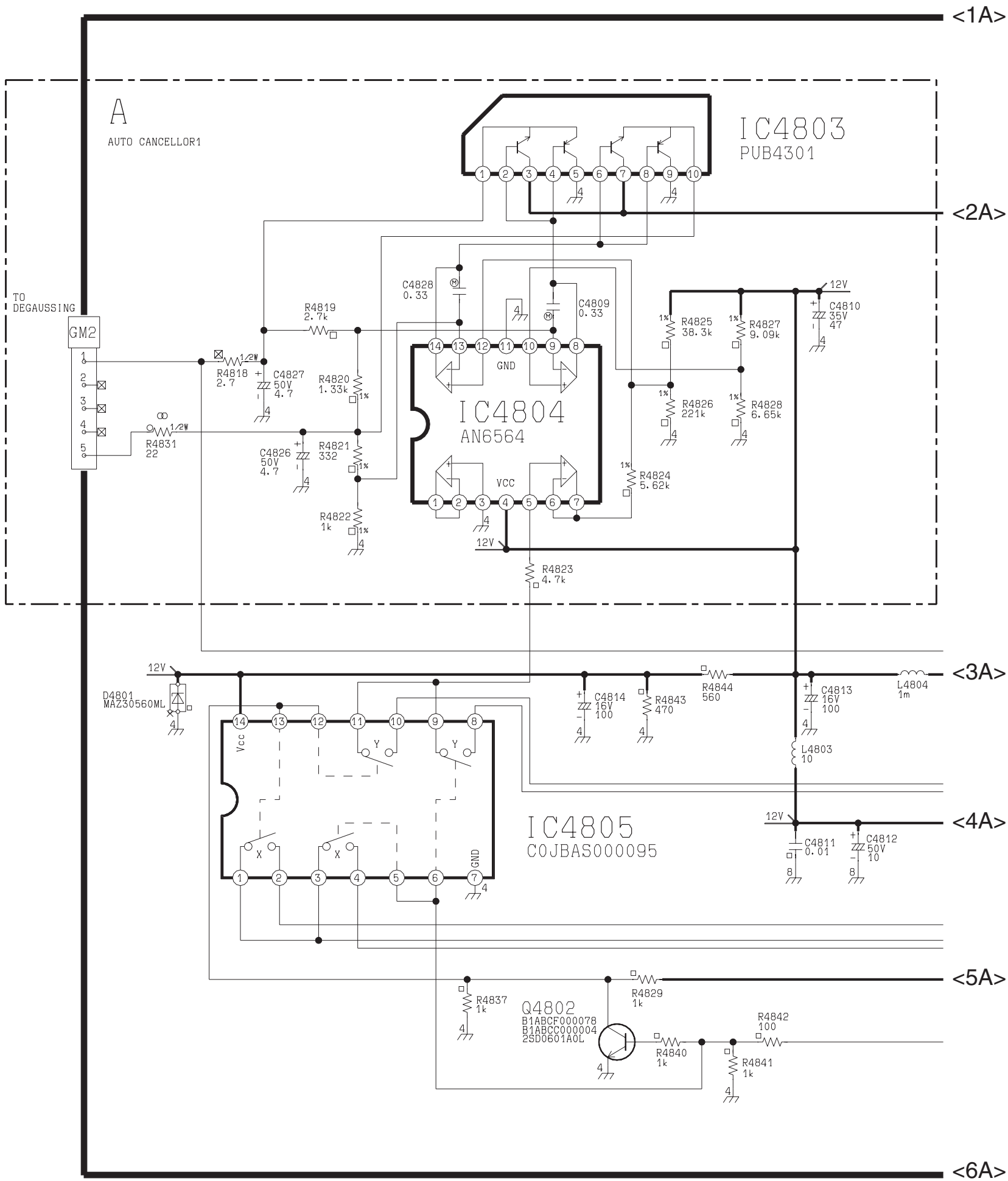
Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide	J : ±5%
Metal FIlm	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

2. Capacitor

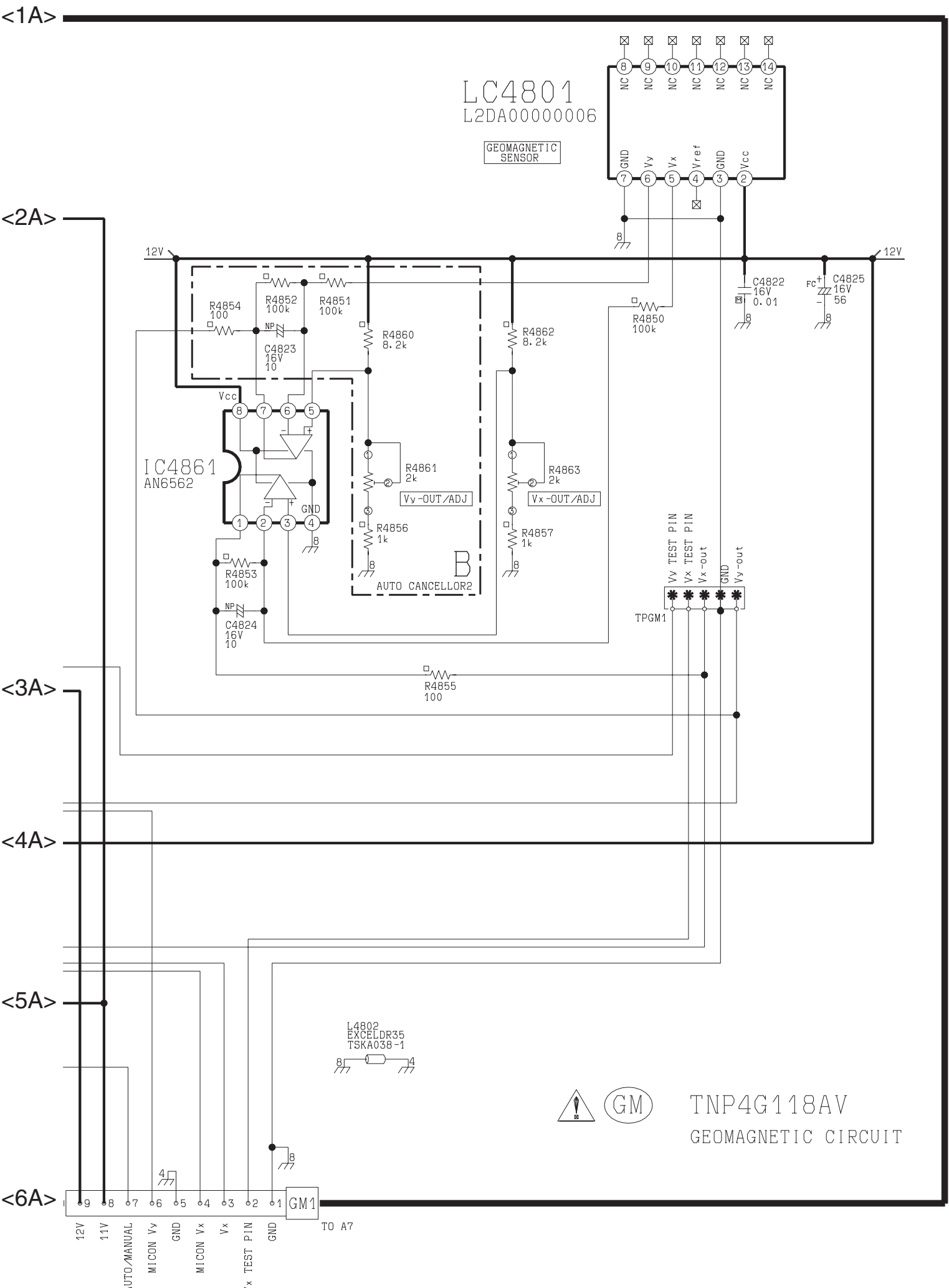
Example:

ECKF1H103ZF C 0.01UF, Z, 50V
Type Allowance

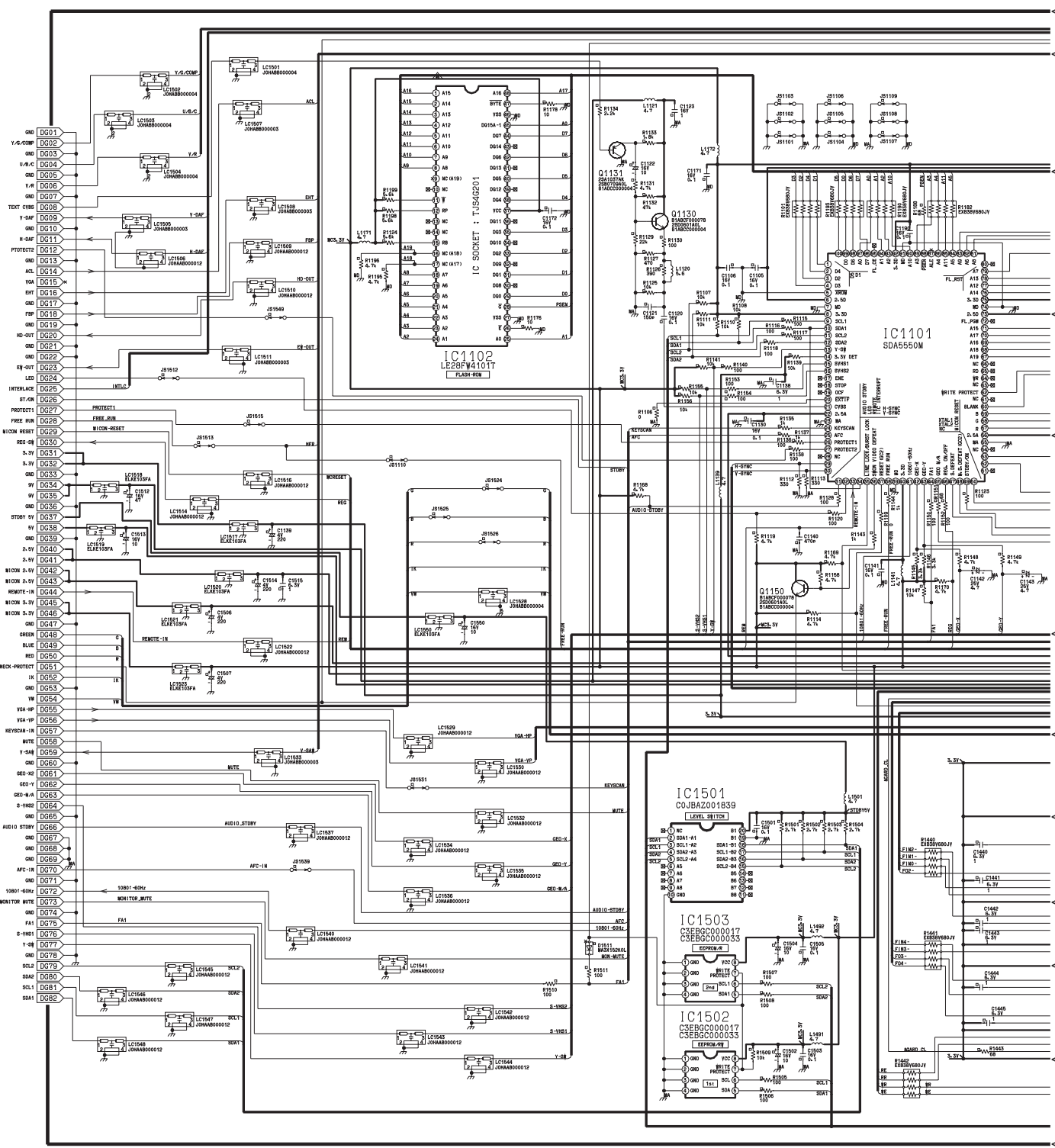
Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polyprop	G : ±3pF
lene	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%



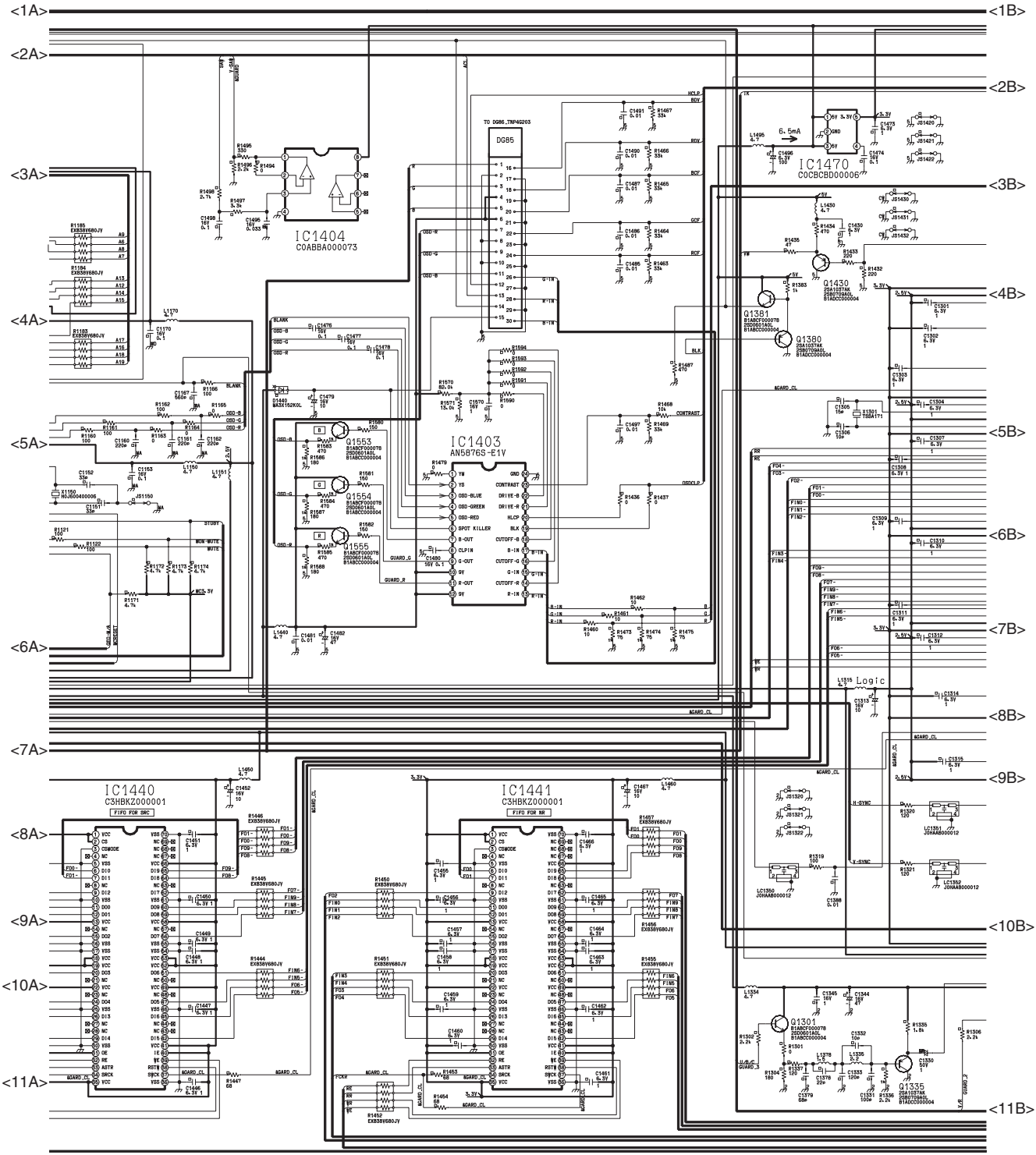
TX-34P150X GM-Board (1 of 2) Schematic Diagram



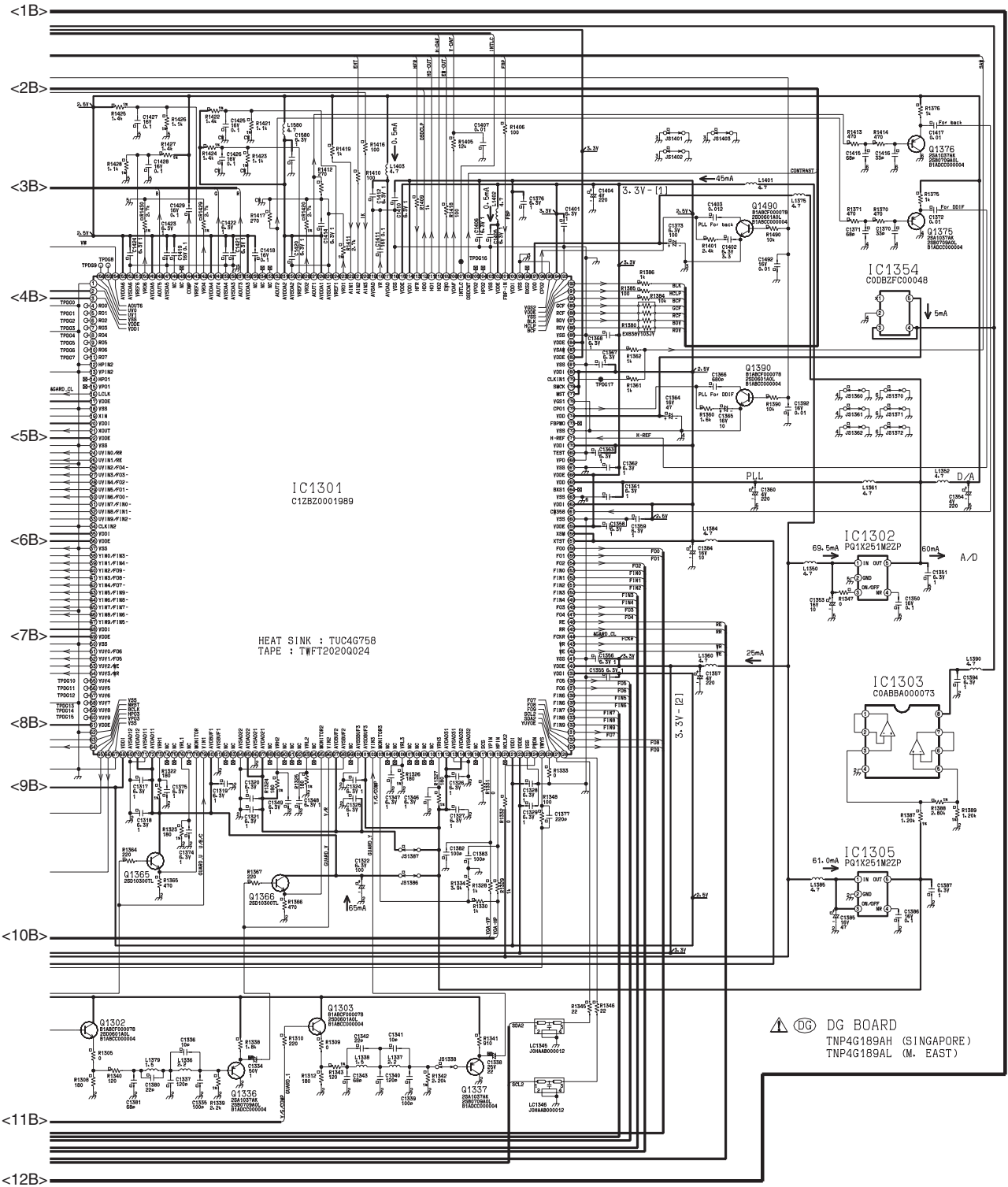
TX-34P150X GM-Board (2 of 2) Schematic Diagram



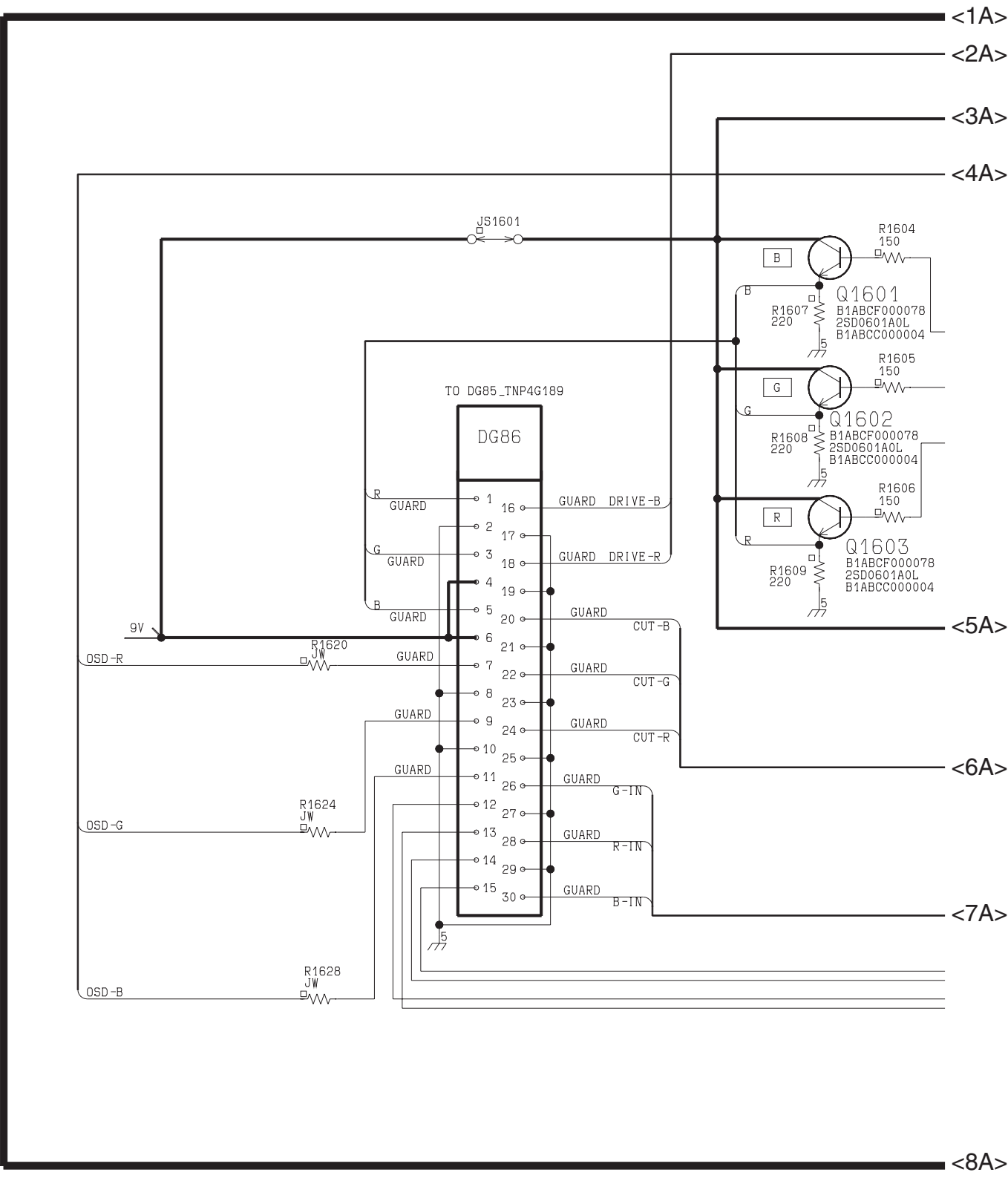
TX-34P150X DG-Board (3 of 3) Schematic Diagram



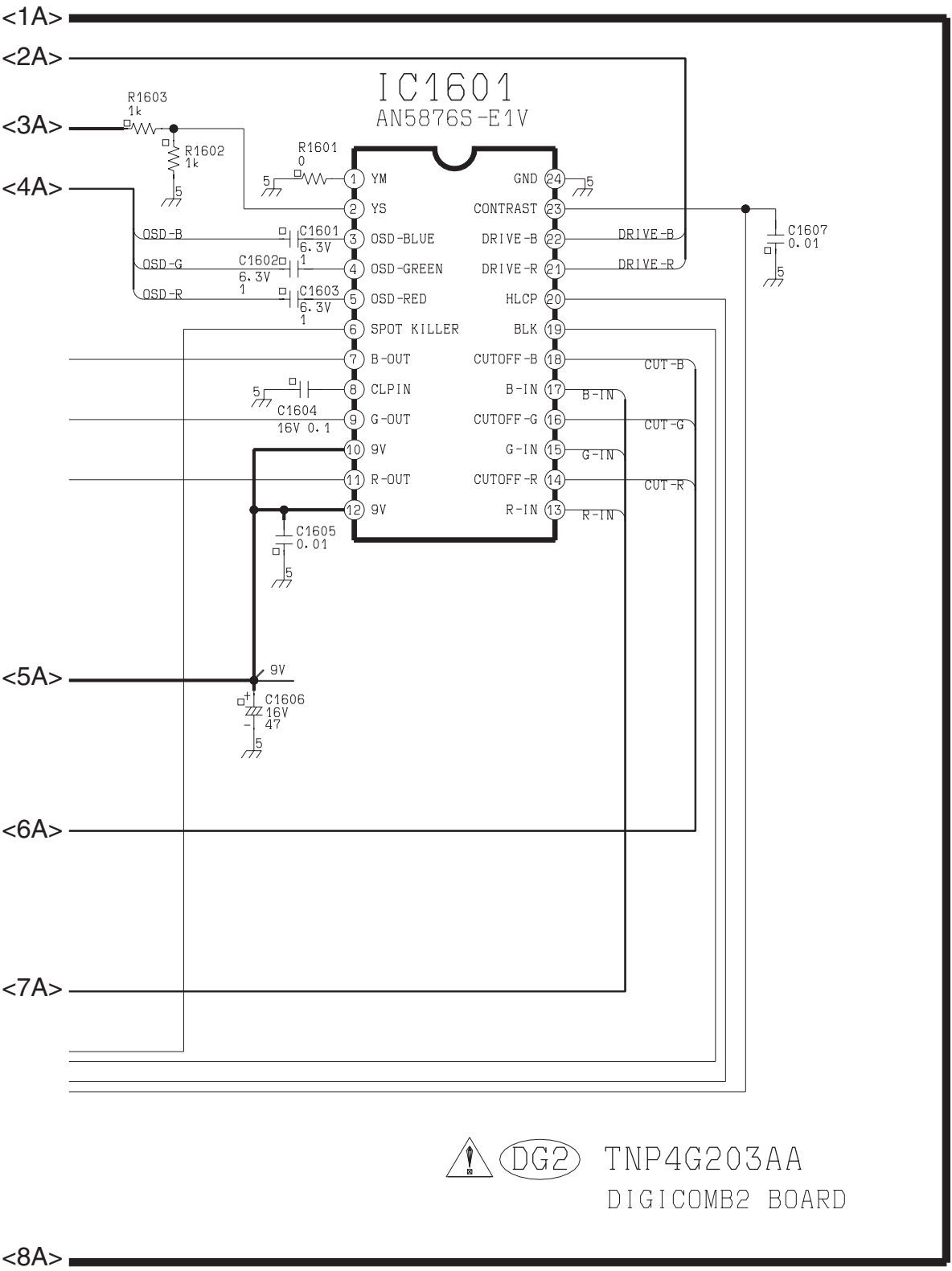
TX-34P150X DG-Board (2 of 3) Schematic Diagram



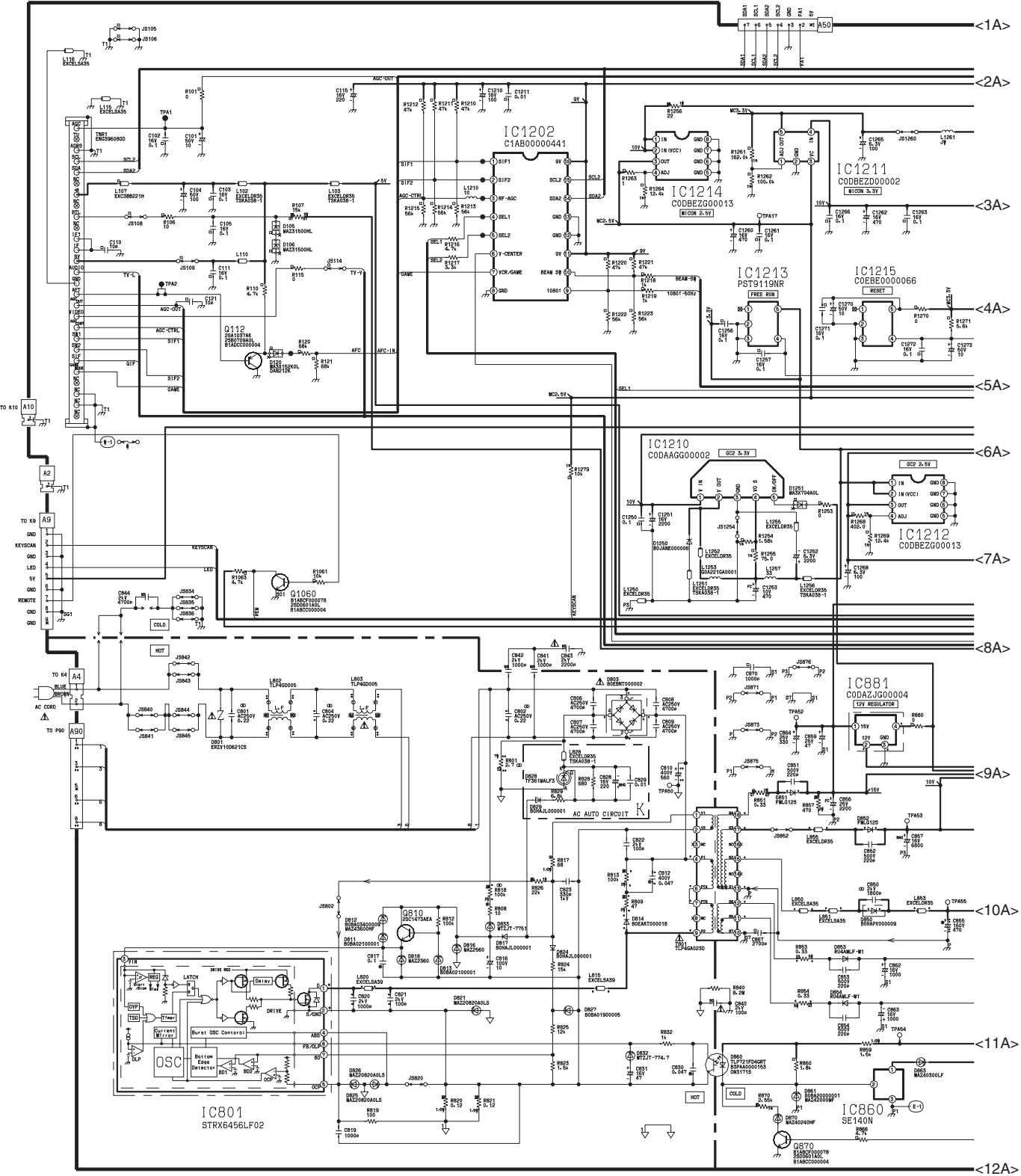
TX-34P150X DG-Board (3 of 3) Schematic Diagram



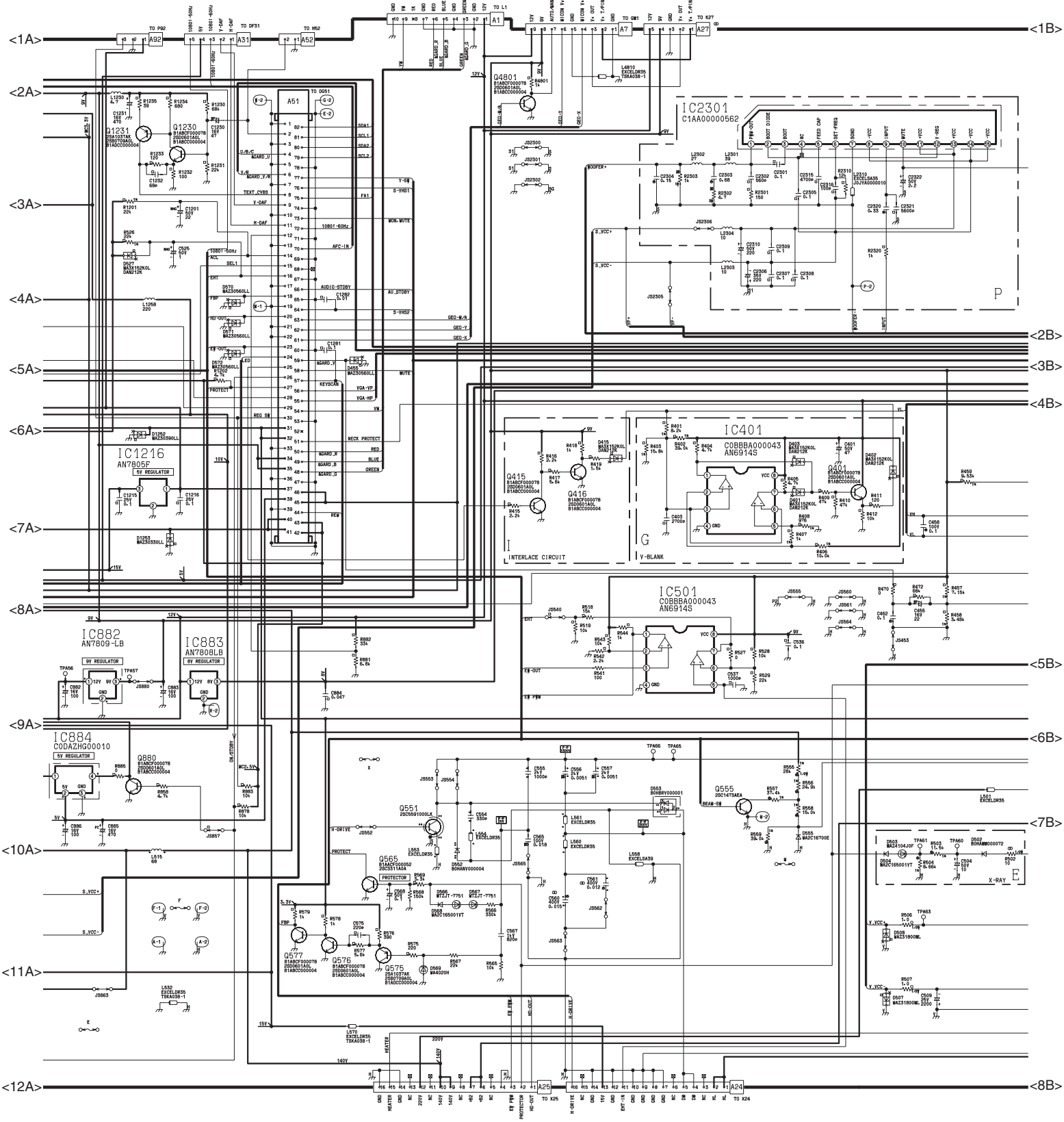
TX-34P150X DG2-Board (1 of 2) Schematic Diagram



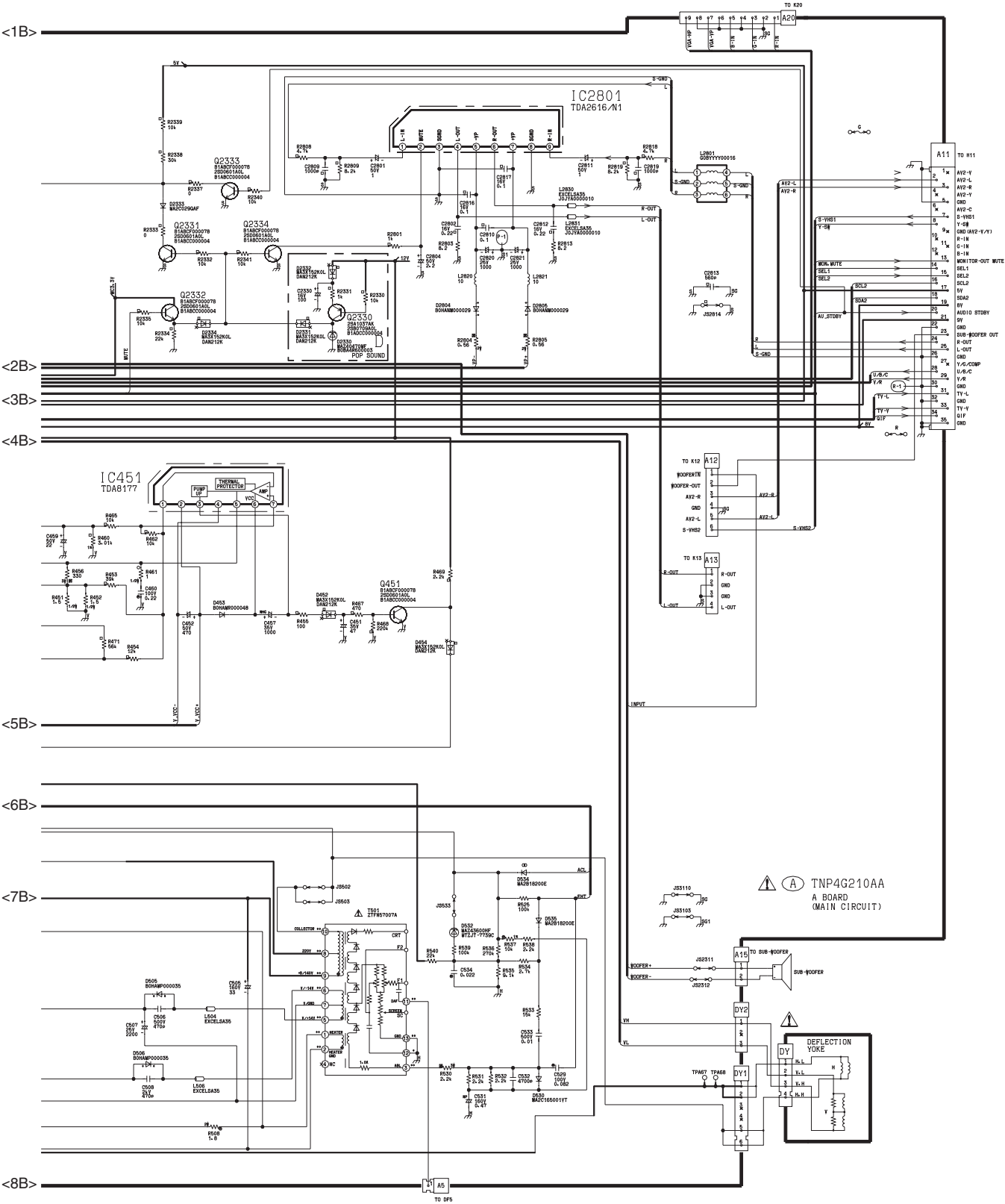
TX-34P150X DG2-Board (2 of 2) Schematic Diagram



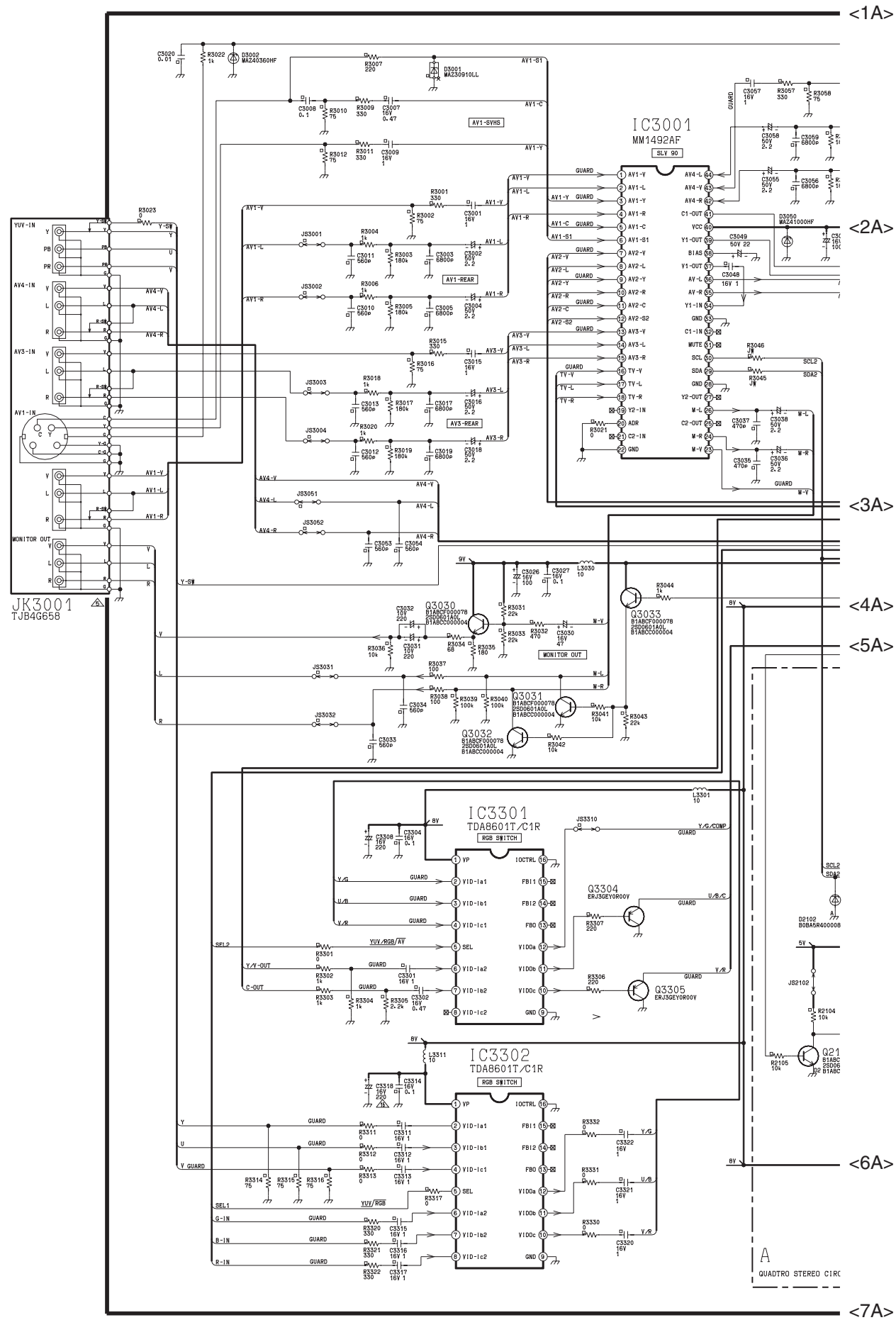
TX-34P150X A-Board (1 of 3) Schematic Diagram



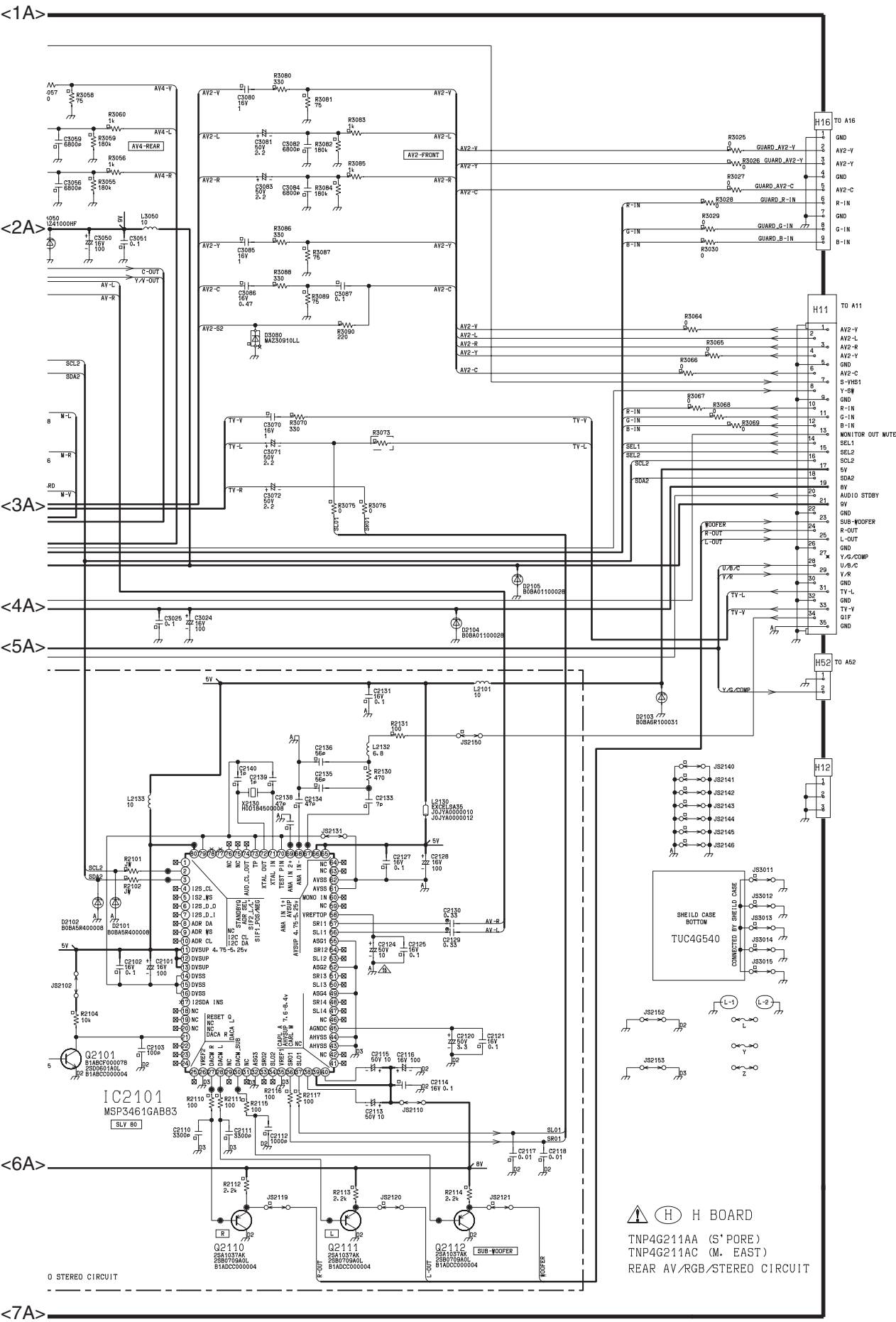
TX-34P150X A-Board (2 of 3) Schematic Diagram



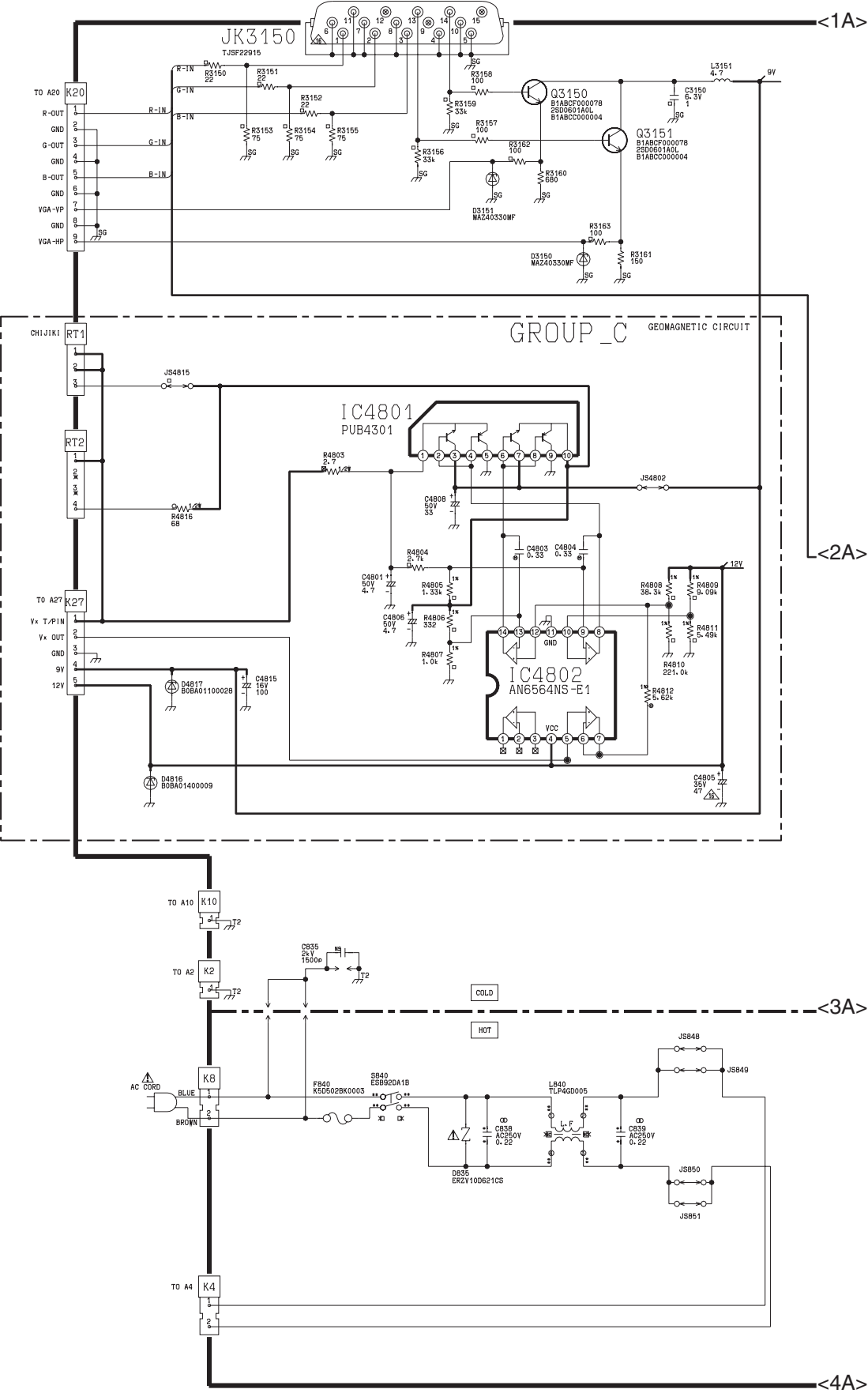
TX-34P150X A-Board (3 of 3) Schematic Diagram



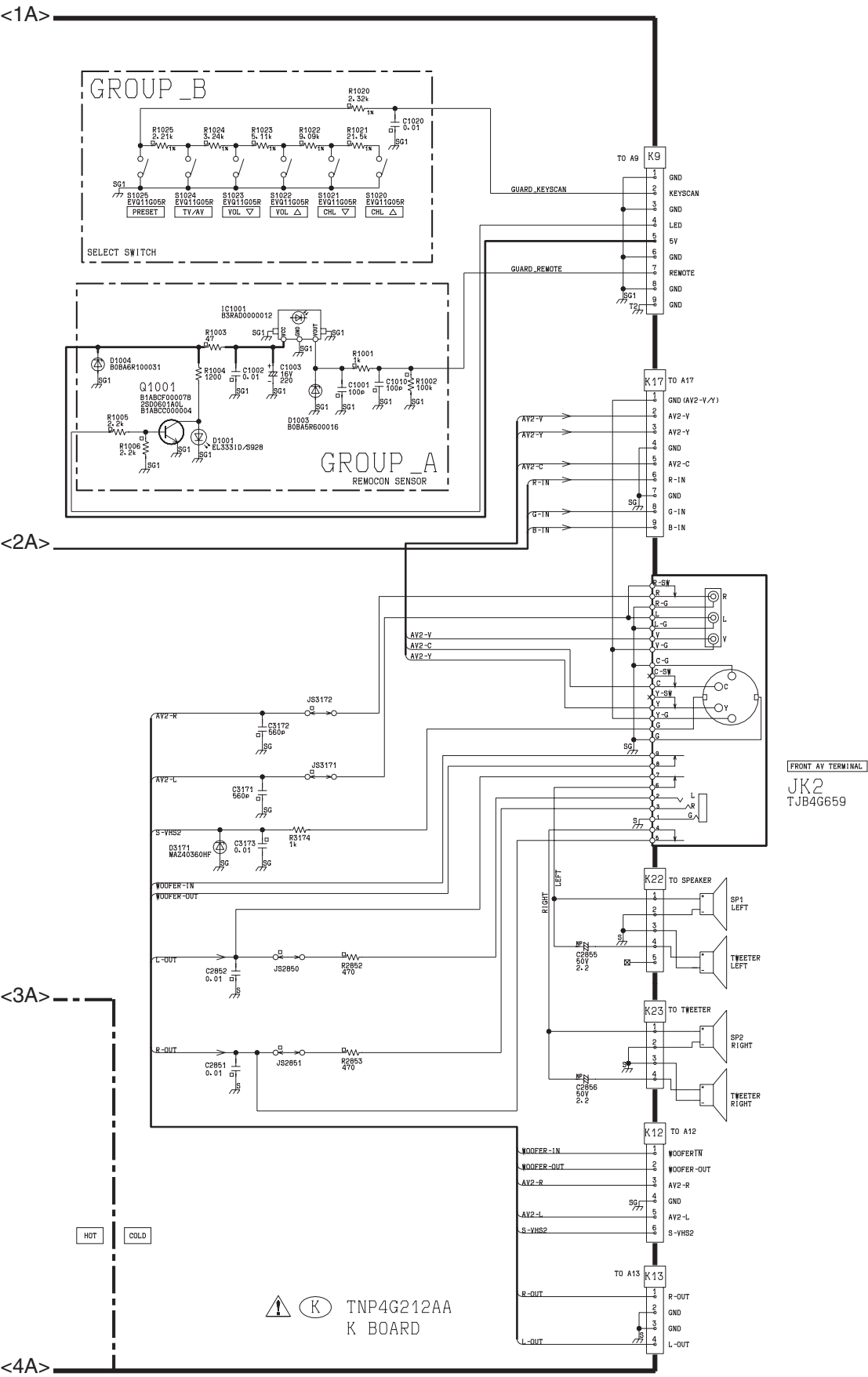
TX-34P150X H-Board (1 of 2) Schematic Diagram



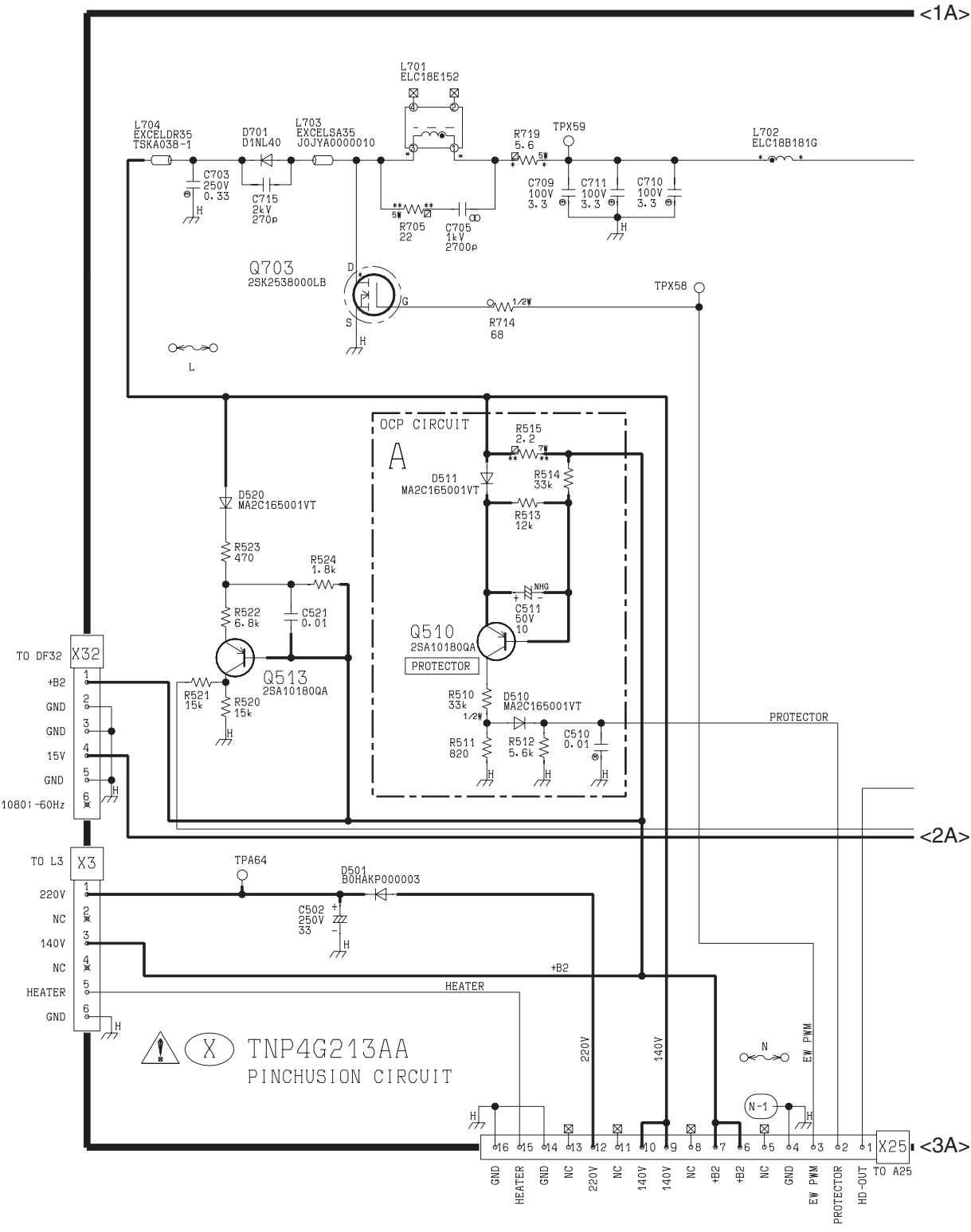
TX-34P150X H-Board (2 of 2) Schematic Diagram



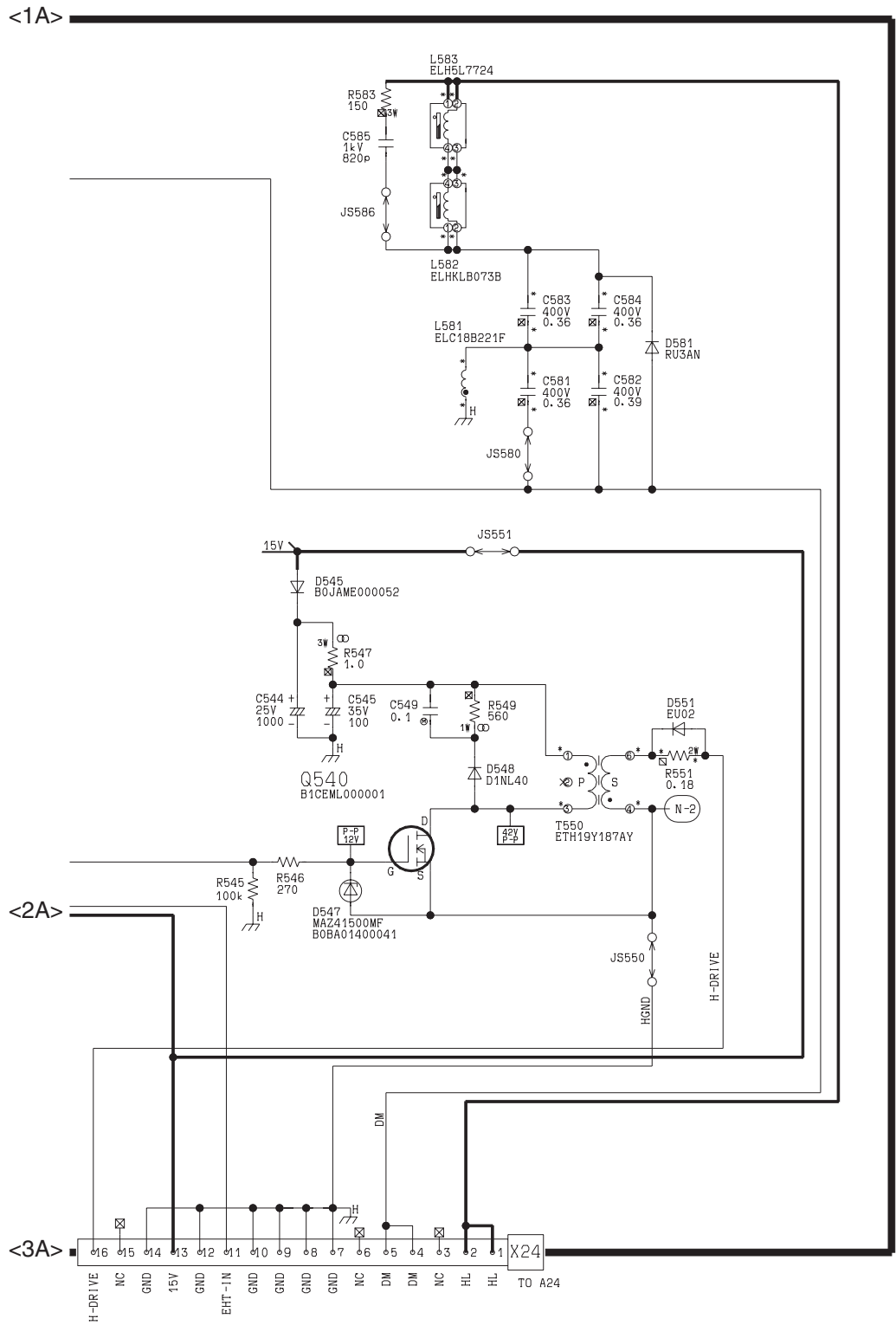
TX-34P150X K-Board (1 of 2) Schematic Diagram



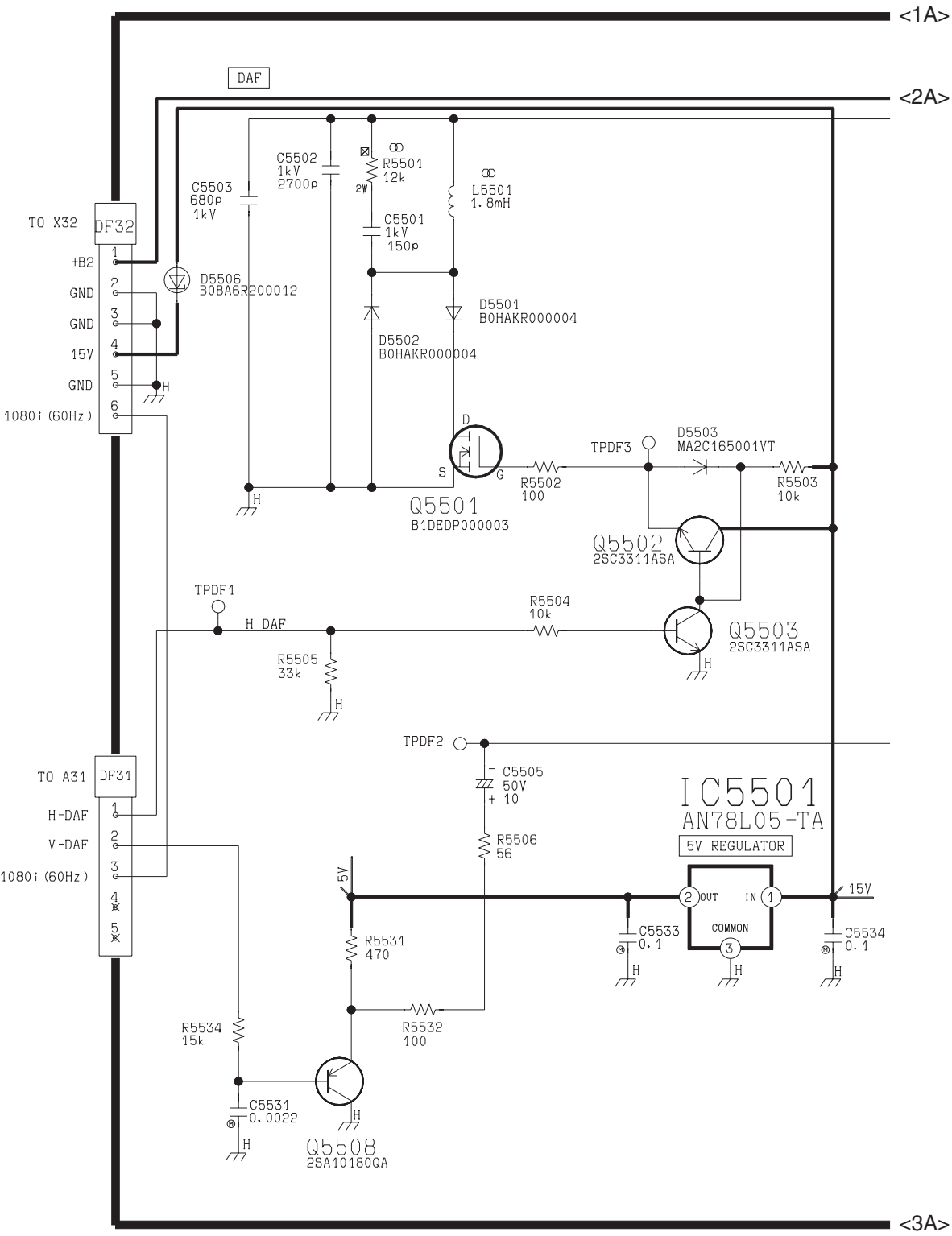
TX-34P150X K-Board (2 of 2) Schematic Diagram



TX-34P150X X-Board (1 of 2) Schematic Diagram



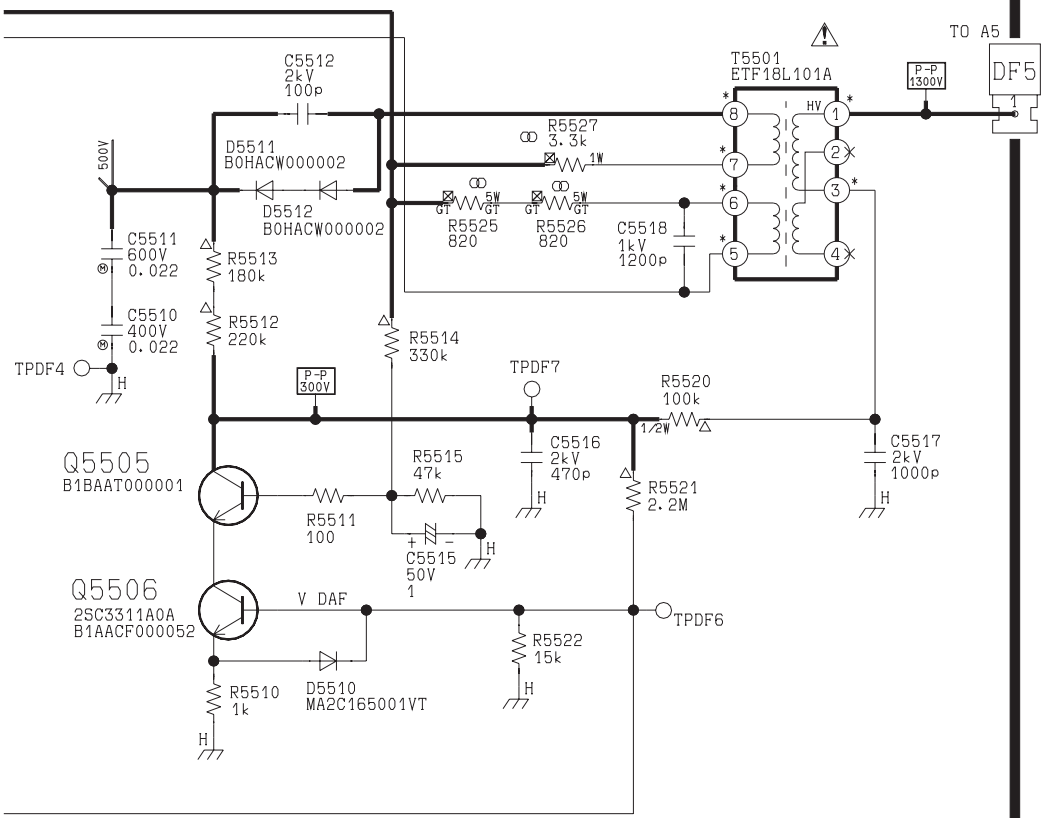
TX-34P150X X-Board (2 of 2) Schematic Diagram



TX-34P150X DF-Board (1 of 2) Schematic Diagram

<1A>

<2A>

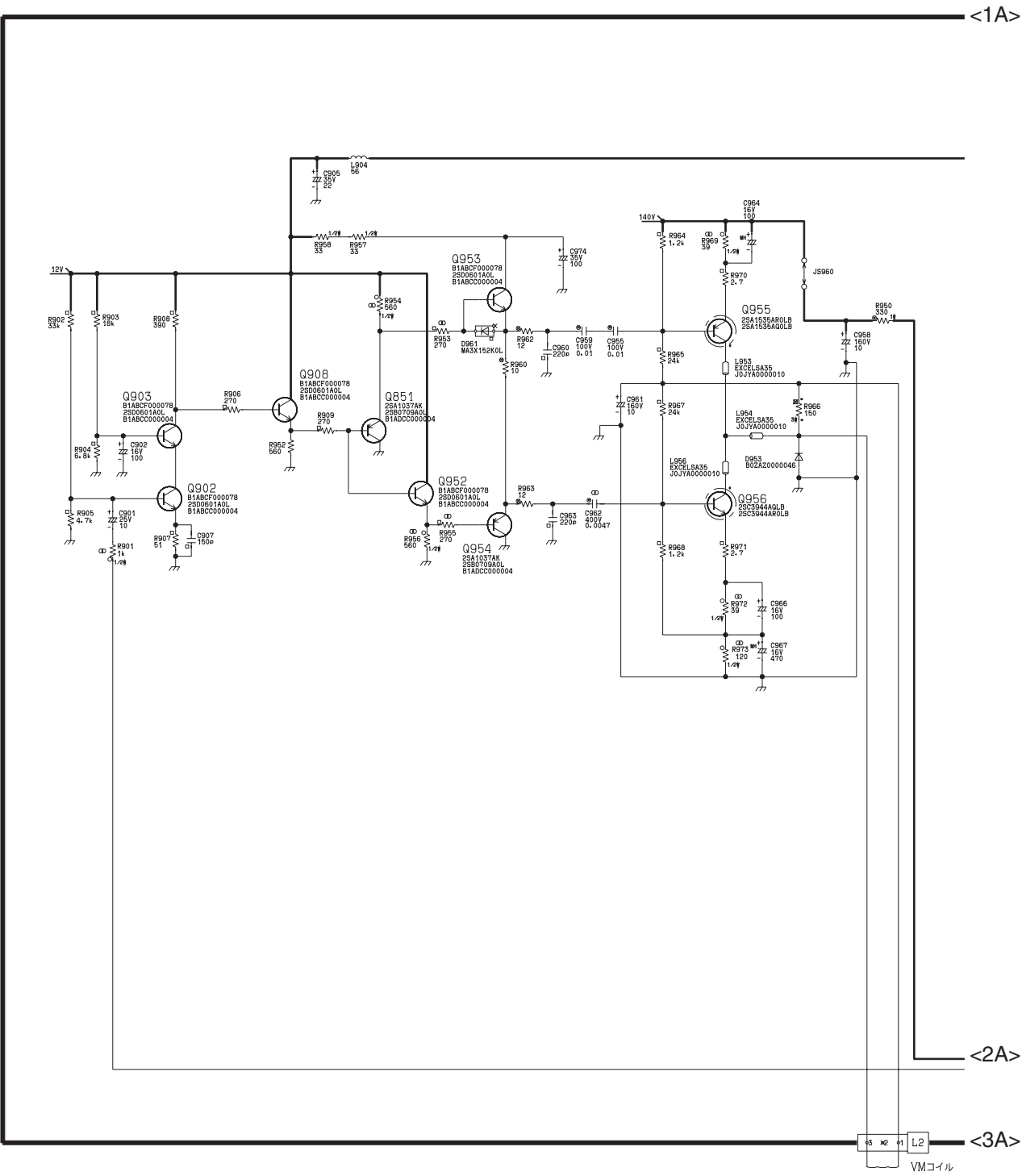


DF TNP4G214AA

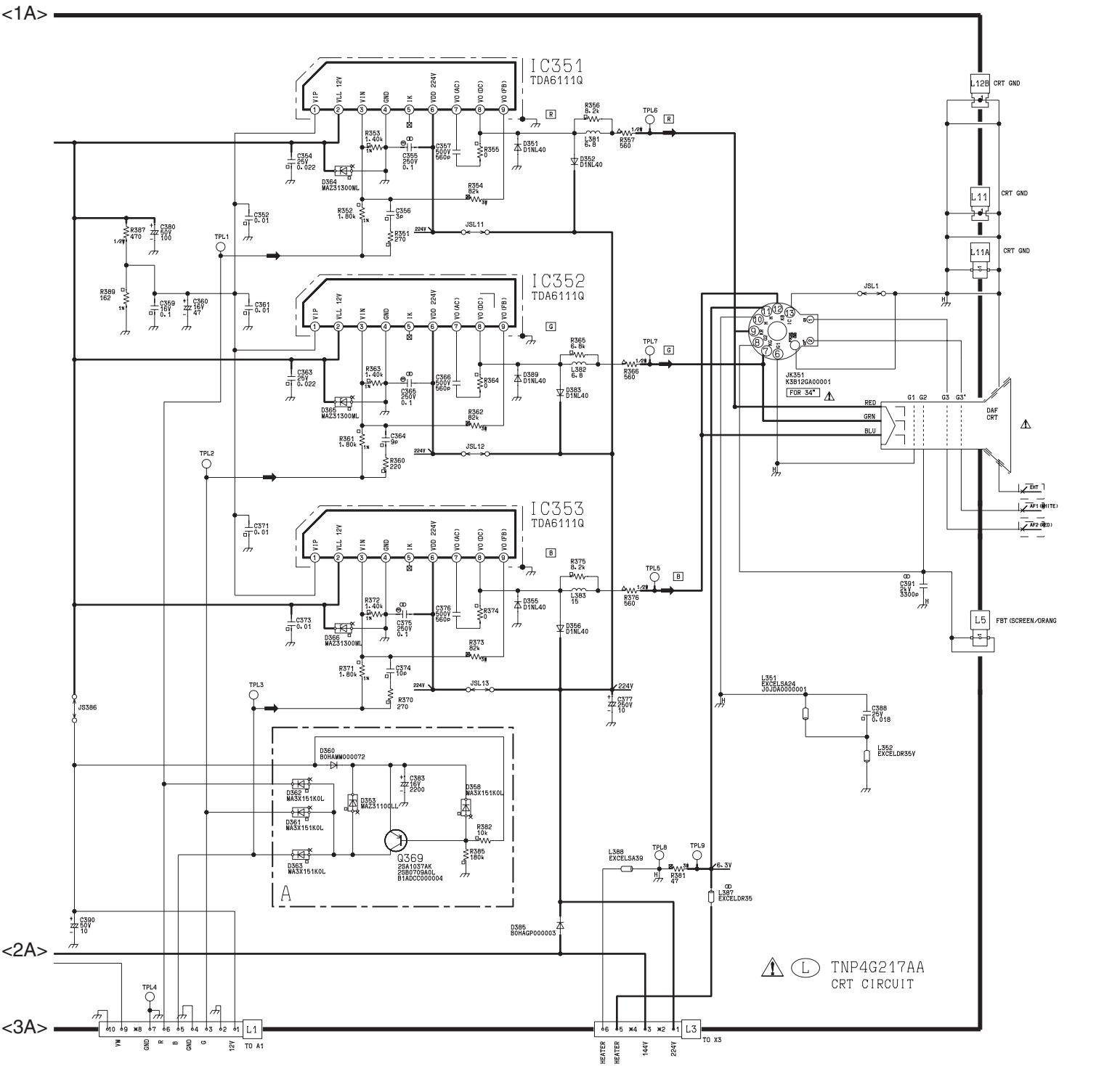
DAF CIRCUIT

<3A>

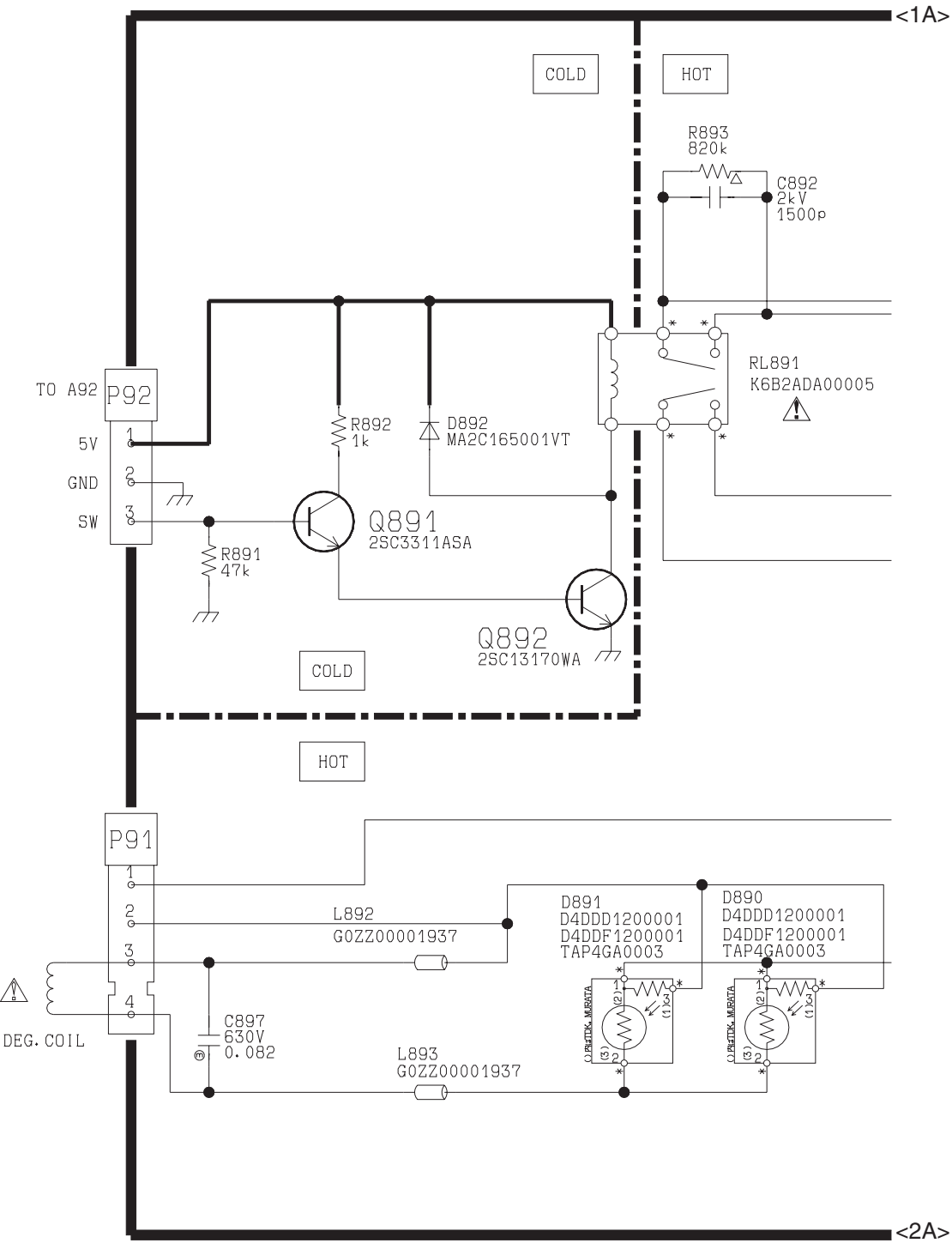
TX-34P150X DF-Board (2 of 2) Schematic Diagram



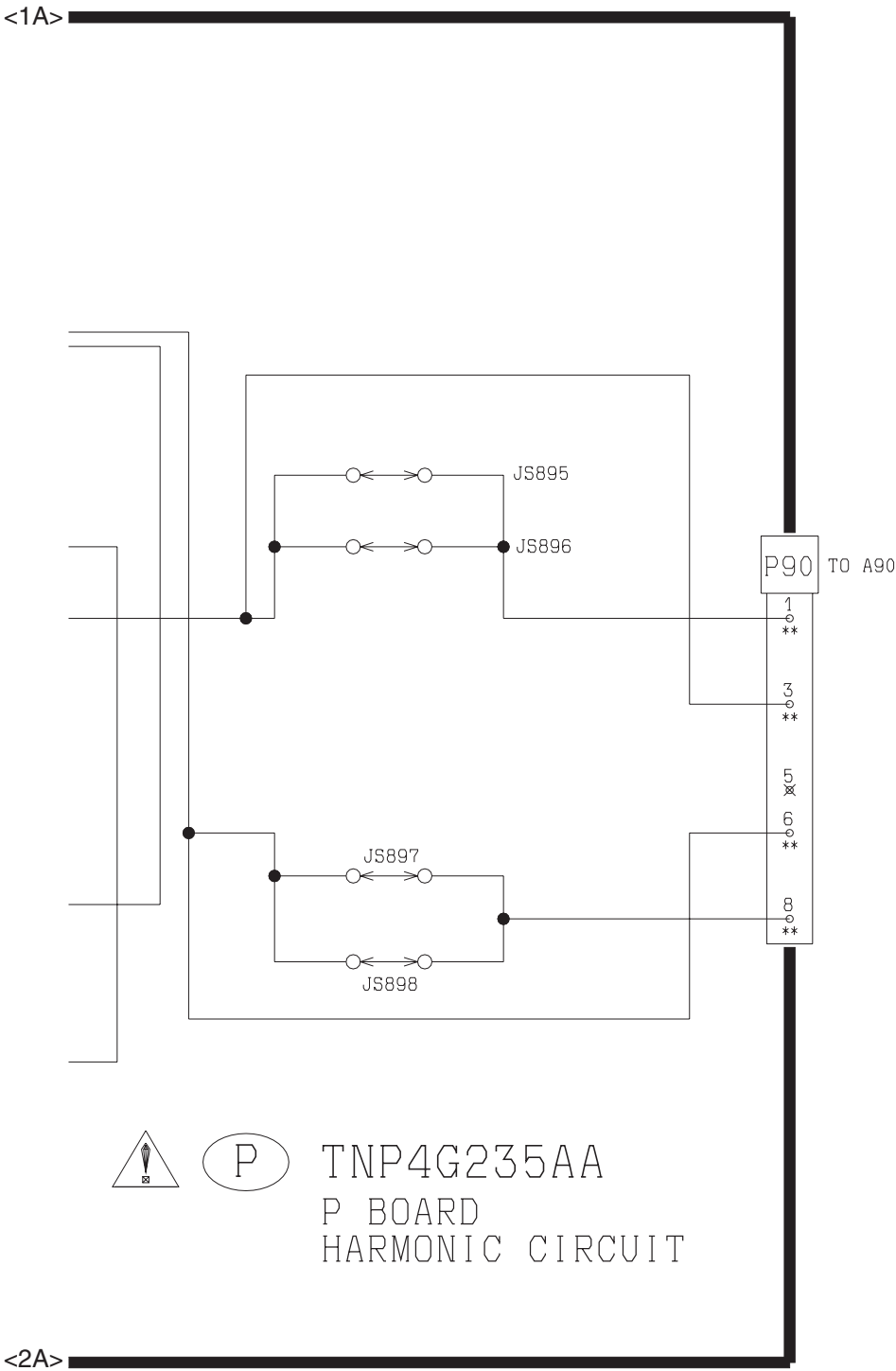
TX-34P150X L-Board (1 of 2) Schematic Diagram



TX-34P150X L-Board (2 of 2) Schematic Diagram



TX-34P150X P-Board (1 of 2) Schematic Diagram



TX-34P150X P-Board (2 of 2) Schematic Diagram

TNP4G210A02
H.V. DANGER
TP465
TP466
BLUE
BROWN